



Means “Trust” in French
when the subject is “you”,
which represents in science
you could trust us.



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As the demand for biopharmaceuticals and cellular therapies grow, consistent and high-quality GMP-grade rproteins become crucial. With CROYEZ stringent quality control system, each lot of Croyez GMP-grade rproteins undergo rigorous QC testing to ensure these products meet the stringent requirements.

Croyez GMP® rProteins are manufactured in ISO 13485:2016 and GMP-certified facility.

Good Manufacturing Practice (GMP) is a system for ensuring that manufacturing products should be produced and controlled according to quality standards. The regulations make sure that products are safe, pure, and effective.

What do CROYEZ GMP rProteins provide?

- Testing and traceability of raw material
- Records of the maintenance and equipment calibration
- Personnel training records
- Batch-to-batch consistency
- Documentation of QA control and process changes
- Manufactured and tested under an ISO 13485:2016 certified quality management system
- Stability monitor of product shelf-life

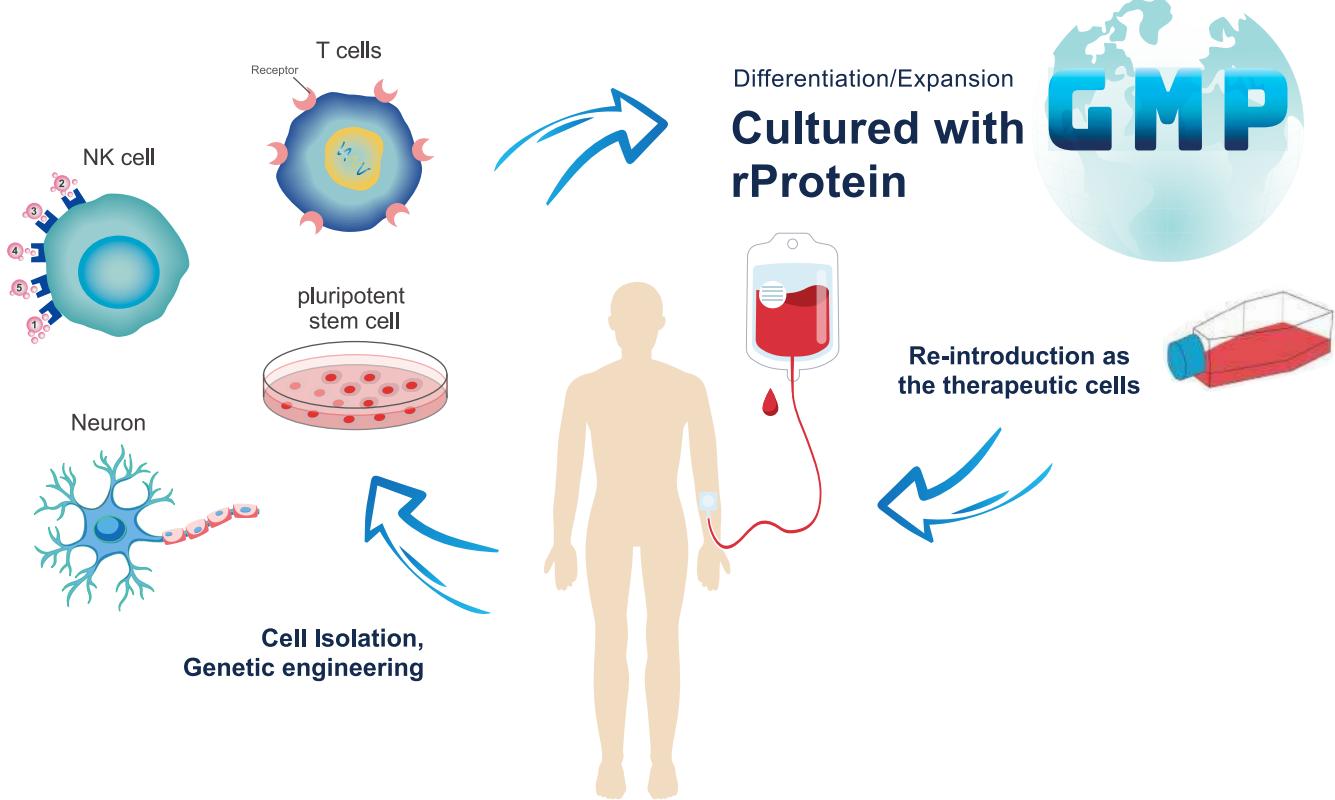
Features

- Animal-free reagent and laboratory
- Endotoxin level < 0.1 EU per 1 ug by LAL method
- High bio-activity
- Complete selection of cytokines and growth factors
- Premium choice for studying immune cell therapy and cell interaction

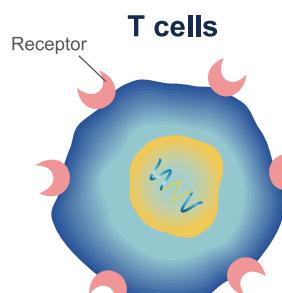
Catalog	Product	Package	Catalog	Product	Package
C01002-GMP	Croyez GMP® IL-1 beta	100 µg / 1 mg	C01080-GMP	Croyez GMP® IFN gamma	100 µg / 1 mg
C01004-GMP	Croyez GMP® IL-2	100 µg / 1 mg	C01047-GMP	Croyez GMP® TNF alpha	100 µg / 1 mg
C01005-GMP	Croyez GMP® IL-3	100 µg / 1 mg	C01088-GMP	Croyez GMP® TGF beta 1	100 µg / 1 mg
C01006-GMP	Croyez GMP® IL-4	100 µg / 1 mg	C01119-GMP	Croyez GMP® Activin A	100 µg / 1 mg
C01008-GMP	Croyez GMP® IL-6	100 µg / 1 mg	C01126-GMP	Croyez GMP® TPO	100 µg / 1 mg
C01009-GMP	Croyez GMP® IL-7	100 µg / 1 mg	C01092-GMP	Croyez GMP® FGF-2 (154 a.a.)	100 µg / 1 mg
C01012-GMP	Croyez GMP® IL-10	100 µg / 1 mg	C01085-GMP	Croyez GMP® Flt-3 Ligand	100 µg / 1 mg
C01017-GMP	Croyez GMP® IL-15	100 µg / 1 mg	C01177-GMP	Croyez GMP® SCF	100 µg / 1 mg
C01023-GMP	Croyez GMP® IL-18	100 µg / 1 mg	C01121-GMP	Croyez GMP® EGF	100 µg / 1 mg
C01026-GMP	Croyez GMP® IL-21	100 µg / 1 mg	C01176-GMP	Croyez GMP® Noggin, Human	100 µg / 1 mg
C01116-GMP	Croyez GMP® GM-CSF	100 µg / 1 mg	C01084-GMP	Croyez GMP® 4-1BBL, Human	100 µg / 1 mg
-	-	-	C01180-GMP	Croyez GMP® Human IL-2 & IL-15 Fusion Protein, Tag Free	100 µg / 1 mg

Recombinant proteins listed above are Human species

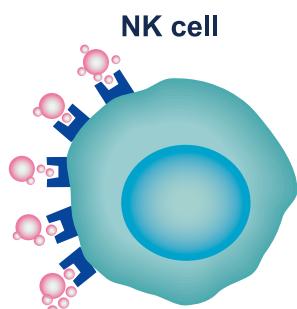
Cytokines and growth factors are widely used in the field of cell therapy and regenerative medicine. In order to ensure excellent quality and lot-to-lot consistency, Croyez GMP-grade rproteins are manufactured under stringent regulations.



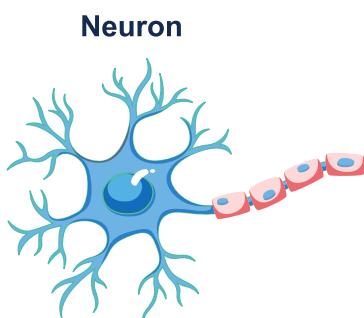
Find targets for your research



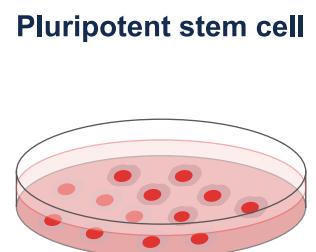
IL-1 beta
IL-2
IL-3
IL-4
IL-6
IL-7
IL-10
IL-12
IL-15
IL-21
IFN gamma
TGF beta 1



IL-2
IL-7
IL-12
IL-15
IL-18
IL-21
IFN gamma
TNF alpha



FGF
Noggin
EGF



FGF	IL-3
Noggin	IL-6
Activin A	SCF
EGF	TPO
Fit-3 Ligand	

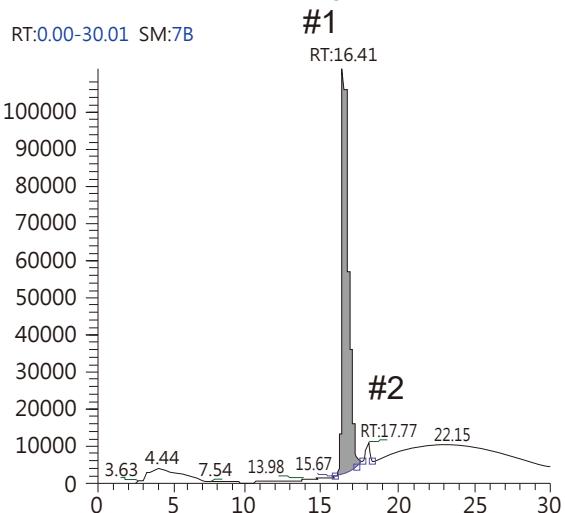
Introduction of Recombinant Protein

Croyez offers a wide range of premium recombinant proteins to support your scientific research. Our protein products have expanded to include a wide range of cytokines, neurotrophins, chemokines, growth factors, and many more. Croyez's recombinant proteins are animal-free and undergo multiple quality checks, ensuring that each product has a purity over 95%, contains a low endotoxin level (<0.1 EU per µg), and maintains a high biological activity.

Advantages

- Complete range of products .
 - Product types : Cytokine, Chemokine, Growth factor, Enzyme, Neurotrophin, etc.
 - Applications : Drug development / Cell culture application
- Purity determination by SDS-PAGE.
- Biological activity testing.
- Better protein activity than the competitions.

Interleukin-1 beta, Human



Peak	RT(min)	Height	Area	%Area
#1	16.41	1.06E+05	2.37E+06	97.08
#2	17.77	5.16E+03	7.15E+04	2.92

Protein	ED ₅₀		Assay
	Croyez	Competitor	
IFN gamma	0.99 ng/mL	0.5-1 ng/mL	IFN gamma induces cytotoxicity in HT29 cells.
TNF alpha	0.1 pg/mL	25-100 pg/mL	TNF alpha induces cytotoxicity in HT29 cells.
IGF-I	0.908 ng/mL	0.3-1.5 ng/mL	IGF-I stimulates proliferation in MCF-7 cells.
BMP-4	0.579 ng/mL	2.5-15 ng/mL	BMP-4 induces ALP production in ATDC5 cells.
FGF-6	0.074 ng/mL	0.1-0.3 ng/mL	FGF-6 stimulates proliferation in 3T3 cells.

Human related proteins

Category	Name	Package	Category	Name	Package
C01001 - 5UG 20UG 100UG	IL-1 alpha, Human	5 µg 20 µg 100 µg	C01048 - 5UG 20UG 100UG	TNF beta, Human	5 µg 20 µg 100 µg
C01002 - 5UG 20UG 100UG	IL-1 beta, Human	5 µg 20 µg 100 µg	C01049 - 5UG 20UG 100UG	APRIL, Human	5 µg 20 µg 100 µg
C01003 - 5UG 20UG 100UG	IL-1RA, Human	5 µg 20 µg 100 µg	C01050 - 5UG 20UG 100UG	AITRL, Human	5 µg 20 µg 100 µg
C01004 - 5UG 20UG 100UG	IL-2, Human	5 µg 20 µg 100 µg	C01051 - 5UG 20UG 100UG	BAFF, Human	5 µg 20 µg 100 µg
C01005 - 5UG 20UG 100UG	IL-3, Human	5 µg 20 µg 100 µg	C01052 - 5UG 20UG 100UG	CD27L, Human	5 µg 20 µg 100 µg
C01006 - 5UG 20UG 100UG	IL-4, Human	5 µg 20 µg 100 µg	C01053 - 5UG 20UG 100UG	CD30L, Human	5 µg 20 µg 100 µg
C01007 - 5UG 20UG 100UG	IL-5, Human	5 µg 20 µg 100 µg	C01054 - 5UG 20UG 100UG	CD40L, Human	5 µg 20 µg 100 µg
C01008 - 5UG 20UG 100UG	IL-6, Human	5 µg 20 µg 100 µg	C01055 - 5UG 20UG 100UG	FasL, Human	5 µg 20 µg 100 µg
C01009 - 5UG 20UG 100UG	IL-7, Human	5 µg 20 µg 100 µg	C01056 - 5UG 20UG 100UG	LIGHT, Human	5 µg 20 µg 100 µg
C01010 - 5UG 20UG 100UG	IL-8 (72 a.a.), Human	5 µg 20 µg 100 µg	C01058 - 5UG 20UG 100UG	RANKL, Human	5 µg 20 µg 100 µg
C01011 - 5UG 20UG 100UG	IL-9, Human	5 µg 20 µg 100 µg	C01059 - 5UG 20UG 100UG	TRAIL, Human	5 µg 20 µg 100 µg
C01012 - 5UG 20UG 100UG	IL-10, Human	5 µg 20 µg 100 µg	C01060 - 5UG 20UG 100UG	TL1A, Human	5 µg 20 µg 100 µg
C01013 - 5UG 20UG 100UG	IL-11, Human	5 µg 20 µg 100 µg	C01061 - 5UG 20UG 100UG	TWEAK, Human	5 µg 20 µg 100 µg
C01014 - 5UG 20UG 100UG	IL-12 p35, Human	5 µg 20 µg 100 µg	C01062 - 5UG 20UG 100UG	BMP-2, Human	5 µg 20 µg 100 µg
C01015 - 5UG 20UG 100UG	IL-12 p40, Human	5 µg 20 µg 100 µg	C01063 - 5UG 20UG 100UG	BMP-3, Human	5 µg 20 µg 100 µg
C01016 - 5UG 20UG 100UG	IL-13, Human	5 µg 20 µg 100 µg	C01064 - 5UG 20UG 100UG	BMP-4, Human	5 µg 20 µg 100 µg
C01017 - 5UG 20UG 100UG	IL-15, Human	5 µg 20 µg 100 µg	C01065 - 5UG 20UG 100UG	BMP-5, Human	5 µg 20 µg 100 µg
C01018 - 5UG 20UG 100UG	IL-16 (129 a.a.), Human	5 µg 20 µg 100 µg	C01066 - 5UG 20UG 100UG	BMP-6, Human	5 µg 20 µg 100 µg
C01019 - 5UG 20UG 100UG	IL-17A, Human	5 µg 20 µg 100 µg	C01067 - 5UG 20UG 100UG	BMP-7, Human	5 µg 20 µg 100 µg
C01020 - 5UG 20UG 100UG	IL-17B, Human	5 µg 20 µg 100 µg	C01068 - 5UG 20UG 100UG	BMP-8a, Human	5 µg 20 µg 100 µg
C01021 - 5UG 20UG 100UG	IL-17D, Human	5 µg 20 µg 100 µg	C01069 - 5UG 20UG 100UG	BMP-8b, Human	5 µg 20 µg 100 µg
C01022 - 5UG 20UG 100UG	IL-17F, Human	5 µg 20 µg 100 µg	C01070 - 5UG 20UG 100UG	BMP-9, Human	5 µg 20 µg 100 µg
C01023 - 5UG 20UG 100UG	IL-18, Human	5 µg 20 µg 100 µg	C01071 - 5UG 20UG 100UG	BMP-10, Human	5 µg 20 µg 100 µg
C01024 - 5UG 20UG 100UG	IL-19, Human	5 µg 20 µg 100 µg	C01072 - 5UG 20UG 100UG	BMP-11, Human	5 µg 20 µg 100 µg
C01025 - 5UG 20UG 100UG	IL-20, Human	5 µg 20 µg 100 µg	C01073 - 5UG 20UG 100UG	BMP-12, Human	5 µg 20 µg 100 µg
C01026 - 5UG 20UG 100UG	IL-21, Human	5 µg 20 µg 100 µg	C01074 - 5UG 20UG 100UG	BMP-13, Human	5 µg 20 µg 100 µg
C01027 - 5UG 20UG 100UG	IL-22, Human	5 µg 20 µg 100 µg	C01075 - 5UG 20UG 100UG	BMP-14, Human	5 µg 20 µg 100 µg
C01028 - 5UG 20UG 100UG	IL-23 p19, Human	5 µg 20 µg 100 µg	C01076 - 5UG 20UG 100UG	BMP-15, Human	5 µg 20 µg 100 µg
C01029 - 5UG 20UG 100UG	IL-24, Human	5 µg 20 µg 100 µg	C01077 - 5UG 20UG 100UG	BMP-16, Human	5 µg 20 µg 100 µg
C01030 - 5UG 20UG 100UG	IL-25, Human	5 µg 20 µg 100 µg	C01078 - 5UG 20UG 100UG	IFN alpha 1a, Human	5 µg 20 µg 100 µg
C01031 - 5UG 20UG 100UG	IL-26, Human	5 µg 20 µg 100 µg	C01079 - 5UG 20UG 100UG	IFN beta 1a, Human	5 µg 20 µg 100 µg
C01032 - 5UG 20UG 100UG	IL-27 EBI3, Human	5 µg 20 µg 100 µg	C01080 - 5UG 20UG 100UG	IFN gamma, Human	5 µg 20 µg 100 µg
C01033 - 5UG 20UG 100UG	IL-28A, Human	5 µg 20 µg 100 µg	C01081 - 5UG 20UG 100UG	IFN omega, Human	5 µg 20 µg 100 µg
C01034 - 5UG 20UG 100UG	IL-28B, Human	5 µg 20 µg 100 µg	C01082 - 5UG 20UG 100UG	HMGB1, Human	5 µg 20 µg 100 µg
C01035 - 5UG 20UG 100UG	IL-29, Human	5 µg 20 µg 100 µg	C01083 - 5UG 20UG 100UG	HMGB2, Human	5 µg 20 µg 100 µg
C01036 - 5UG 20UG 100UG	IL-30, Human	5 µg 20 µg 100 µg	C01084 - 5UG 20UG 100UG	41BBL, Human	5 µg 20 µg 100 µg
C01037 - 5UG 20UG 100UG	IL-31, Human	5 µg 20 µg 100 µg	C01085 - 5UG 20UG 100UG	Flt-3 Ligand, Human	5 µg 20 µg 100 µg
C01038 - 5UG 20UG 100UG	IL-32 alpha, Human	5 µg 20 µg 100 µg	C01086 - 5UG 20UG 100UG	LIF, Human	5 µg 20 µg 100 µg
C01039 - 5UG 20UG 100UG	IL-33, Human	5 µg 20 µg 100 µg	C01087 - 5UG 20UG 100UG	TGF alpha, Human	5 µg 20 µg 100 µg
C01040 - 5UG 20UG 100UG	IL-34, Human	5 µg 20 µg 100 µg	C01088 - 5UG 20UG 100UG	TGF beta 1, Human	5 µg 20 µg 100 µg
C01041 - 5UG 20UG 100UG	IL-36 alpha, Human	5 µg 20 µg 100 µg	C01089 - 5UG 20UG 100UG	TGF beta 2, Human	5 µg 20 µg 100 µg
C01042 - 5UG 20UG 100UG	IL-36 beta, Human	5 µg 20 µg 100 µg	C01090 - 5UG 20UG 100UG	TGF beta 3, Human	5 µg 20 µg 100 µg
C01043 - 5UG 20UG 100UG	IL-36 gamma, Human	5 µg 20 µg 100 µg	C01091 - 5UG 20UG 100UG	FGF-1, Human	5 µg 20 µg 100 µg
C01044 - 5UG 20UG 100UG	IL-36RA, Human	5 µg 20 µg 100 µg	C01092 - 5UG 20UG 100UG	FGF-2 (154 a.a.), Human	5 µg 20 µg 100 µg
C01045 - 5UG 20UG 100UG	IL-37, Human	5 µg 20 µg 100 µg	C01093 - 5UG 20UG 100UG	FGF-3, Human	5 µg 20 µg 100 µg
C01046 - 5UG 20UG 100UG	IL-38, Human	5 µg 20 µg 100 µg	C01094 - 5UG 20UG 100UG	FGF-4, Human	5 µg 20 µg 100 µg
C01047 - 5UG 20UG 100UG	TNF alpha, Human	5 µg 20 µg 100 µg	C01095 - 5UG 20UG 100UG	FGF-5, Human	5 µg 20 µg 100 µg

Human related proteins

Category	Name	Package	Category	Name	Package
C01096 - 5UG 20UG 100UG	FGF-6, Human	5 µg 20 µg 100 µg	C01143 - 5UG 20UG 100UG	MMP2 (active), Human	5 µg 20 µg 100 µg
C01097 - 5UG 20UG 100UG	FGF-8a, Human	5 µg 20 µg 100 µg	C01144 - 5UG 20UG 100UG	MMP7 (active), Human	5 µg 20 µg 100 µg
C01098 - 5UG 20UG 100UG	FGF-8b, Human	5 µg 20 µg 100 µg	C01145 - 5UG 20UG 100UG	PGA5, Human	5 µg 20 µg 100 µg
C01099 - 5UG 20UG 100UG	FGF-9, Human	5 µg 20 µg 100 µg	C01146 - 5UG 20UG 100UG	CHI3L1, Human	5 µg 20 µg 100 µg
C01100 - 5UG 20UG 100UG	FGF-10, Human	5 µg 20 µg 100 µg	C01147 - 5UG 20UG 100UG	OGG1, Human	5 µg 20 µg 100 µg
C01101 - 5UG 20UG 100UG	FGF-11 isoform 1, Human	5 µg 20 µg 100 µg	C01148 - 5UG 20UG 100UG	BDNF, Human	5 µg 20 µg 100 µg
C01102 - 5UG 20UG 100UG	FGF-11 isoform 2, Human	5 µg 20 µg 100 µg	C01149 - 5UG 20UG 100UG	CDNF, Human	5 µg 20 µg 100 µg
C01103 - 5UG 20UG 100UG	FGF-12, Human	5 µg 20 µg 100 µg	C01150 - 5UG 20UG 100UG	CNTF, Human	5 µg 20 µg 100 µg
C01104 - 5UG 20UG 100UG	FGF-13, Human	5 µg 20 µg 100 µg	C01151 - 5UG 20UG 100UG	GDNF, Human	5 µg 20 µg 100 µg
C01105 - 5UG 20UG 100UG	FGF-14, Human	5 µg 20 µg 100 µg	C01152 - 5UG 20UG 100UG	Midkine, Human	5 µg 20 µg 100 µg
C01106 - 5UG 20UG 100UG	FGF-16, Human	5 µg 20 µg 100 µg	C01153 - 5UG 20UG 100UG	Neurturin, Human	5 µg 20 µg 100 µg
C01107 - 5UG 20UG 100UG	FGF-17, Human	5 µg 20 µg 100 µg	C01154 - 5UG 20UG 100UG	beta-NGF, Human	5 µg 20 µg 100 µg
C01108 - 5UG 20UG 100UG	FGF-18, Human	5 µg 20 µg 100 µg	C01155 - 5UG 20UG 100UG	Pleiotrophin, Human	5 µg 20 µg 100 µg
C01109 - 5UG 20UG 100UG	FGF-19, Human	5 µg 20 µg 100 µg	C01156 - 5UG 20UG 100UG	Galectin-1, Human	5 µg 20 µg 100 µg
C01110 - 5UG 20UG 100UG	FGF-20, Human	5 µg 20 µg 100 µg	C01157 - 5UG 20UG 100UG	Galectin-2, Human	5 µg 20 µg 100 µg
C01111 - 5UG 20UG 100UG	FGF-21, Human	5 µg 20 µg 100 µg	C01158 - 5UG 20UG 100UG	Galectin-3, Human	5 µg 20 µg 100 µg
C01112 - 5UG 20UG 100UG	FGF-22, Human	5 µg 20 µg 100 µg	C01159 - 5UG 20UG 100UG	Galectin-4, Human	5 µg 20 µg 100 µg
C01113 - 5UG 20UG 100UG	FGF-23, Human	5 µg 20 µg 100 µg	C01160 - 5UG 20UG 100UG	Galectin-7, Human	5 µg 20 µg 100 µg
C01114 - 5UG 20UG 100UG	IGF-I, Human	5 µg 20 µg 100 µg	C01161 - 5UG 20UG 100UG	Galectin-8, Human	5 µg 20 µg 100 µg
C01115 - 5UG 20UG 100UG	IGF-II, Human	5 µg 20 µg 100 µg	C01162 - 5UG 20UG 100UG	Galectin-9, Human	5 µg 20 µg 100 µg
C01116 - 5UG 20UG 100UG	GM-CSF, Human	5 µg 20 µg 100 µg	C01163 - 5UG 20UG 100UG	Galectin-10, Human	5 µg 20 µg 100 µg
C01117 - 5UG 20UG 100UG	M-CSF, Human	5 µg 20 µg 100 µg	C01164 - 5UG 20UG 100UG	Galectin-12, Human	5 µg 20 µg 100 µg
C01118 - 5UG 20UG 100UG	G-CSF, Human	5 µg 20 µg 100 µg	C01165 - 5UG 20UG 100UG	Galectin-13, Human	5 µg 20 µg 100 µg
C01119 - 5UG 20UG 100UG	Activin A, Human	5 µg 20 µg 100 µg	C01166 - 5UG 20UG 100UG	Galectin-14, Human	5 µg 20 µg 100 µg
C01120 - 5UG 20UG 100UG	Activin B, Human	5 µg 20 µg 100 µg	C01167 - 5UG 20UG 100UG	Galectin-16, Human	5 µg 20 µg 100 µg
C01121 - 5UG 20UG 100UG	EGF, Human	5 µg 20 µg 100 µg	C01168 - 5UG 20UG 100UG	Annexin V, Human	5 µg 20 µg 100 µg
C01122 - 5UG 20UG 100UG	MIF, Human	5 µg 20 µg 100 µg	C01169 - 5UG 20UG 100UG	GIF, Human	5 µg 20 µg 100 µg
C01123 - 5UG 20UG 100UG	HDGF, Human	5 µg 20 µg 100 µg	C01170 - 5UG 20UG 100UG	CD326, Human	5 µg 20 µg 100 µg
C01124 - 5UG 20UG 100UG	VEGF121, Human	5 µg 20 µg 100 µg	C01171 - 5UG 20UG 100UG	RAGE, Human	5 µg 20 µg 100 µg
C01125 - 5UG 20UG 100UG	VEGF165, Human	5 µg 20 µg 100 µg	C01172 - 5UG 20UG 100UG	HMGB1, Human	5 µg 20 µg 100 µg
C01126 - 5UG 20UG 100UG	TPO, Human	5 µg 20 µg 100 µg		(mammalian cell expression)	
C01127 - 5UG 20UG 100UG	CXCL1, Human	5 µg 20 µg 100 µg	C01173 - 5UG 20UG 100UG	HMGB1 C23AC45A, Human	5 µg 20 µg 100 µg
C01128 - 5UG 20UG 100UG	CXCL2, Human	5 µg 20 µg 100 µg		(mammalian cell expression)	
C01129 - 5UG 20UG 100UG	CXCL3, Human	5 µg 20 µg 100 µg	C01174 - 5UG 20UG 100UG	HMGB1 C23AC45AC106A, Human	5 µg 20 µg 100 µg
C01130 - 5UG 20UG 100UG	CXCL4, Human	5 µg 20 µg 100 µg		(mammalian cell expression)	
C01131 - 5UG 20UG 100UG	CXCL5, Human	5 µg 20 µg 100 µg	C01175 - 5UG 20UG 100UG	HMGB2, Human	5 µg 20 µg 100 µg
C01132 - 5UG 20UG 100UG	CXCL6, Human	5 µg 20 µg 100 µg		(mammalian cell expression)	
C01133 - 5UG 20UG 100UG	CXCL7, Human	5 µg 20 µg 100 µg	C01176 - 5UG 20UG 100UG	Noggin, Human	5 µg 20 µg 100 µg
C01134 - 5UG 20UG 100UG	CXCL9, Human	5 µg 20 µg 100 µg	C01177 - 5UG 20UG 100UG	SCF, Human	5 µg 20 µg 100 µg
C01135 - 5UG 20UG 100UG	CXCL10, Human	5 µg 20 µg 100 µg	C01178 - 5UG 20UG 100UG	IL-12 p70, Human	5 µg 20 µg 100 µg
C01136 - 5UG 20UG 100UG	CXCL11, Human	5 µg 20 µg 100 µg		(mammalian cell expression)	
C01137 - 5UG 20UG 100UG	CXCL12 (24-88), Human	5 µg 20 µg 100 µg	C01179 - 5UG 20UG 100UG	ENO1, Human	5 µg 20 µg 100 µg
C01138 - 5UG 20UG 100UG	CXCL13, Human	5 µg 20 µg 100 µg	C01180 - 5UG 20UG 100UG	Human IL-2 & IL-15 Fusion	5 µg 20 µg 100 µg
C01139 - 5UG 20UG 100UG	CCL2, Human	5 µg 20 µg 100 µg		Protein, Tag Free	
C01140 - 5UG 20UG 100UG	CCL3, Human	5 µg 20 µg 100 µg	C01181 - 5UG 20UG 100UG	Human Sonic Hedgehog	5 µg 20 µg 100 µg
C01141 - 5UG 20UG 100UG	CCL4, Human	5 µg 20 µg 100 µg		(C24II), His-SUMO Tag	
C01142 - 5UG 20UG 100UG	MMP7 (proenzyme), Human	5 µg 20 µg 100 µg	C01182 - 5UG 20UG 100UG 1MG	Human Irisin, Tag Free	5 µg 20 µg 100 µg 1 mg

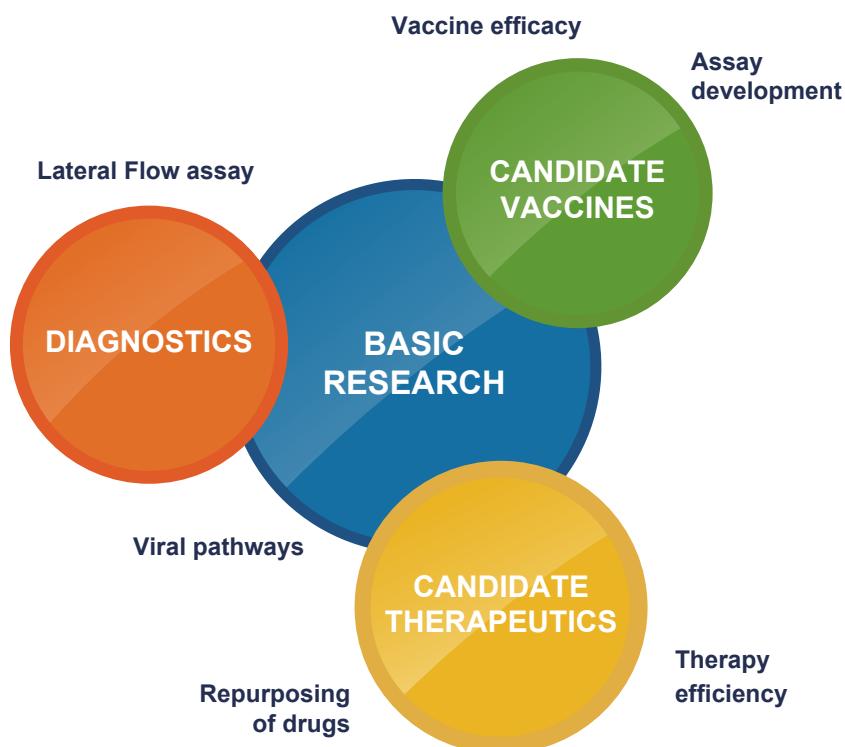
Mouse related proteins

Category	Name	Package	Category	Name	Package
C02001 - 5UG 20UG 100UG	IL-1 alpha, Mouse	5 µg 20 µg 100 µg	C02049 - 5UG 20UG 100UG	TRAIL, Mouse	5 µg 20 µg 100 µg
C02002 - 5UG 20UG 100UG	IL-1 beta, Mouse	5 µg 20 µg 100 µg	C02050 - 5UG 20UG 100UG	TWEAK, Mouse	5 µg 20 µg 100 µg
C02003 - 5UG 20UG 100UG	IL-1RA, Mouse	5 µg 20 µg 100 µg	C02051 - 5UG 20UG 100UG	OX40L, Mouse	5 µg 20 µg 100 µg
C02004 - 5UG 20UG 100UG	IL-2, Mouse	5 µg 20 µg 100 µg	C02052 - 5UG 20UG 100UG	BMP-4, Mouse	5 µg 20 µg 100 µg
C02005 - 5UG 20UG 100UG	IL-3, Mouse	5 µg 20 µg 100 µg	C02053 - 5UG 20UG 100UG	IFN alpha 1a, Mouse	5 µg 20 µg 100 µg
C02006 - 5UG 20UG 100UG	IL-4, Mouse	5 µg 20 µg 100 µg	C02054 - 5UG 20UG 100UG	IFN beta 1a, Mouse	5 µg 20 µg 100 µg
C02007 - 5UG 20UG 100UG	IL-5, Mouse	5 µg 20 µg 100 µg	C02055 - 5UG 20UG 100UG	IFN gamma, Mouse	5 µg 20 µg 100 µg
C02008 - 5UG 20UG 100UG	IL-6, Mouse	5 µg 20 µg 100 µg	C02056 - 5UG 20UG 100UG	HMGB1, Mouse	5 µg 20 µg 100 µg
C02009 - 5UG 20UG 100UG	IL-7, Mouse	5 µg 20 µg 100 µg	C02057 - 5UG 20UG 100UG	41BBL, Mouse	5 µg 20 µg 100 µg
C02010 - 5UG 20UG 100UG	IL-9, Mouse	5 µg 20 µg 100 µg	C02058 - 5UG 20UG 100UG	Flt-3 Ligand, Mouse	5 µg 20 µg 100 µg
C02011 - 5UG 20UG 100UG	IL-10, Mouse	5 µg 20 µg 100 µg	C02059 - 5UG 20UG 100UG	LIF, Mouse	5 µg 20 µg 100 µg
C02012 - 5UG 20UG 100UG	IL-11, Mouse	5 µg 20 µg 100 µg	C02060 - 5UG 20UG 100UG	TGF beta 1, Mouse	5 µg 20 µg 100 µg
C02013 - 5UG 20UG 100UG	IL-12 p35, Mouse	5 µg 20 µg 100 µg	C02061 - 5UG 20UG 100UG	FGF-2, Mouse	5 µg 20 µg 100 µg
C02014 - 5UG 20UG 100UG	IL-12 p40, Mouse	5 µg 20 µg 100 µg	C02062 - 5UG 20UG 100UG	IGF-I, Mouse	5 µg 20 µg 100 µg
C02015 - 5UG 20UG 100UG	IL-13, Mouse	5 µg 20 µg 100 µg	C02063 - 5UG 20UG 100UG	IGF-II, Mouse	5 µg 20 µg 100 µg
C02016 - 5UG 20UG 100UG	IL-15, Mouse	5 µg 20 µg 100 µg	C02064 - 5UG 20UG 100UG	GM-CSF, Mouse	5 µg 20 µg 100 µg
C02017 - 5UG 20UG 100UG	IL-16, Mouse	5 µg 20 µg 100 µg	C02065 - 5UG 20UG 100UG	M-CSF, Mouse	5 µg 20 µg 100 µg
C02018 - 5UG 20UG 100UG	IL-17A, Mouse	5 µg 20 µg 100 µg	C02066 - 5UG 20UG 100UG	G-CSF, Mouse	5 µg 20 µg 100 µg
C02019 - 5UG 20UG 100UG	IL-17B, Mouse	5 µg 20 µg 100 µg	C02067 - 5UG 20UG 100UG	Activin B, Mouse	5 µg 20 µg 100 µg
C02020 - 5UG 20UG 100UG	IL-17D, Mouse	5 µg 20 µg 100 µg	C02068 - 5UG 20UG 100UG	EGF, Mouse	5 µg 20 µg 100 µg
C02021 - 5UG 20UG 100UG	IL-17F, Mouse	5 µg 20 µg 100 µg	C02069 - 5UG 20UG 100UG	MIF, Mouse	5 µg 20 µg 100 µg
C02022 - 5UG 20UG 100UG	IL-18, Mouse	5 µg 20 µg 100 µg	C02070 - 5UG 20UG 100UG	HDGF, Mouse	5 µg 20 µg 100 µg
C02023 - 5UG 20UG 100UG	IL-19, Mouse	5 µg 20 µg 100 µg	C02071 - 5UG 20UG 100UG	VEGF121, Mouse	5 µg 20 µg 100 µg
C02024 - 5UG 20UG 100UG	IL-20, Mouse	5 µg 20 µg 100 µg	C02072 - 5UG 20UG 100UG	VEGF165, Mouse	5 µg 20 µg 100 µg
C02025 - 5UG 20UG 100UG	IL-21, Mouse	5 µg 20 µg 100 µg	C02073 - 5UG 20UG 100UG	CXCL1, Mouse	5 µg 20 µg 100 µg
C02026 - 5UG 20UG 100UG	IL-22, Mouse	5 µg 20 µg 100 µg	C02074 - 5UG 20UG 100UG	CXCL2, Mouse	5 µg 20 µg 100 µg
C02028 - 5UG 20UG 100UG	IL-24, Mouse	5 µg 20 µg 100 µg	C02075 - 5UG 20UG 100UG	CXCL3, Mouse	5 µg 20 µg 100 µg
C02029 - 5UG 20UG 100UG	IL-25, Mouse	5 µg 20 µg 100 µg	C02076 - 5UG 20UG 100UG	CXCL5, Mouse	5 µg 20 µg 100 µg
C02030 - 5UG 20UG 100UG	IL-27 EBI3, Mouse	5 µg 20 µg 100 µg	C02077 - 5UG 20UG 100UG	CXCL7 (40-113), Mouse	5 µg 20 µg 100 µg
C02031 - 5UG 20UG 100UG	IL-28A, Mouse	5 µg 20 µg 100 µg	C02078 - 5UG 20UG 100UG	CXCL7 (48-109), Mouse	5 µg 20 µg 100 µg
C02032 - 5UG 20UG 100UG	IL-28B, Mouse	5 µg 20 µg 100 µg	C02079 - 5UG 20UG 100UG	CXCL9, Mouse	5 µg 20 µg 100 µg
C02033 - 5UG 20UG 100UG	IL-30, Mouse	5 µg 20 µg 100 µg	C02080 - 5UG 20UG 100UG	CXCL10, Mouse	5 µg 20 µg 100 µg
C02034 - 5UG 20UG 100UG	IL-31, Mouse	5 µg 20 µg 100 µg	C02081 - 5UG 20UG 100UG	CXCL11, Mouse	5 µg 20 µg 100 µg
C02035 - 5UG 20UG 100UG	IL-33, Mouse	5 µg 20 µg 100 µg	C02082 - 5UG 20UG 100UG	CXCL12, Mouse	5 µg 20 µg 100 µg
C02036 - 5UG 20UG 100UG	IL-34, Mouse	5 µg 20 µg 100 µg	C02083 - 5UG 20UG 100UG	CXCL16, Mouse	5 µg 20 µg 100 µg
C02037 - 5UG 20UG 100UG	IL-36 alpha, Mouse	5 µg 20 µg 100 µg	C02084 - 5UG 20UG 100UG	CCL2, Mouse	5 µg 20 µg 100 µg
C02039 - 5UG 20UG 100UG	IL-36 gamma, Mouse	5 µg 20 µg 100 µg	C02085 - 5UG 20UG 100UG	CCL3, Mouse	5 µg 20 µg 100 µg
C02040 - 5UG 20UG 100UG	IL-36RA, Mouse	5 µg 20 µg 100 µg	C02086 - 5UG 20UG 100UG	CCL4, Mouse	5 µg 20 µg 100 µg
C02041 - 5UG 20UG 100UG	IL-38, Mouse	5 µg 20 µg 100 µg	C02087 - 5UG 20UG 100UG	CDNF, Mouse	5 µg 20 µg 100 µg
C02042 - 5UG 20UG 100UG	TNF alpha, Mouse	5 µg 20 µg 100 µg	C02088 - 5UG 20UG 100UG	CNTF, Mouse	5 µg 20 µg 100 µg
C02043 - 5UG 20UG 100UG	TNF beta, Mouse	5 µg 20 µg 100 µg	C02089 - 5UG 20UG 100UG	GDNF, Mouse	5 µg 20 µg 100 µg
C02044 - 5UG 20UG 100UG	BAFF, Mouse	5 µg 20 µg 100 µg	C02090 - 5UG 20UG 100UG	Midkine, Mouse	5 µg 20 µg 100 µg
C02045 - 5UG 20UG 100UG	CD27L, Mouse	5 µg 20 µg 100 µg	C02091 - 5UG 20UG 100UG	Neurturin, Mouse	5 µg 20 µg 100 µg
C02046 - 5UG 20UG 100UG	FasL, Mouse	5 µg 20 µg 100 µg	C02092 - 5UG 20UG 100UG	beta-NGF, Mouse	5 µg 20 µg 100 µg
C02047 - 5UG 20UG 100UG	LIGHT, Mouse	5 µg 20 µg 100 µg	C02094 - 5UG 20UG 100UG	ENO1, Mouse	5 µg 20 µg 100 µg 1 mg
C02048 - 5UG 20UG 100UG	RANKL, Mouse	5 µg 20 µg 100 µg	C02095 - 5UG 20UG 100UG	FGF-21, Mouse	5 µg 20 µg 100 µg 1 mg

Cat.	Name	Package
C03001 - 5UG 20UG 100UG	IL-1 alpha, Swine	5 µg 20 µg 100 µg
C03002 - 5UG 20UG 100UG	IL-1 beta, Swine	5 µg 20 µg 100 µg
C03003 - 5UG 20UG 100UG	IL-2, Swine	5 µg 20 µg 100 µg
C03004 - 5UG 20UG 100UG	IL-4, Swine	5 µg 20 µg 100 µg
C03005 - 5UG 20UG 100UG	IL-6, Swine	5 µg 20 µg 100 µg
C03006 - 5UG 20UG 100UG	IL-8, Swine	5 µg 20 µg 100 µg
C03007 - 5UG 20UG 100UG	IL-10, Swine	5 µg 20 µg 100 µg
C03008 - 5UG 20UG 100UG	IL-15, Swine	5 µg 20 µg 100 µg
C03009 - 5UG 20UG 100UG	IL-17A, Swine	5 µg 20 µg 100 µg
C03010 - 5UG 20UG 100UG	TNF alpha, Swine	5 µg 20 µg 100 µg
C03011 - 5UG 20UG 100UG	BMP-4, Swine	5 µg 20 µg 100 µg
C03012 - 5UG 20UG 100UG	IFN gamma, Swine	5 µg 20 µg 100 µg
C03014 - 5UG 20UG 100UG	Flt-3 Ligand, Swine	5 µg 20 µg 100 µg
C03015 - 5UG 20UG 100UG	TGF beta 1, Swine	5 µg 20 µg 100 µg
C03016 - 5UG 20UG 100UG	FGF-2, Swine	5 µg 20 µg 100 µg
C03017 - 5UG 20UG 100UG	IGF-I, Swine	5 µg 20 µg 100 µg
C03018 - 5UG 20UG 100UG	GM-CSF, Swine	5 µg 20 µg 100 µg
C03019 - 5UG 20UG 100UG	VEGF, Swine	5 µg 20 µg 100 µg
C03020 - 5UG 20UG 100UG	EGF, Swine	5 µg 20 µg 100 µg
C03021 - 5UG 20UG 100UG	TPO, Swine	5 µg 20 µg 100 µg
C03022 - 5UG 20UG 100UG	CXCL9, Swine	5 µg 20 µg 100 µg
C03023 - 5UG 20UG 100UG	CXCL10, Swine	5 µg 20 µg 100 µg
C03024 - 5UG 20UG 100UG	CXCL11, Swine	5 µg 20 µg 100 µg
C03025 - 5UG 20UG 100UG	CXCL13, Swine	5 µg 20 µg 100 µg
C03026 - 5UG 20UG 100UG	CCL2, Swine	5 µg 20 µg 100 µg

Best choice of recombinant protein for SARS-CoV-2 research!

Recombinant SARS-CoV-2 proteins are essential starting materials to support the studies in the biology of the virus and to be applied as controls during testing newly developed diagnostics and vaccines. These proteins can be challenging and time-consuming to produce, especially under the new restricted working conditions. Last year upon the outbreak of COVID-19, CROYEZ quickly developed and launched a comprehensive series of coronavirus nucleocapsid proteins which helps the researcher to distinguish the cross-reactivities among developed diagnostics.



Cat.	Name	Package
C11001	Human Coronavirus (NL63) NucleocapsidProtein, His-SUMO tag, HEK293	5, 20, 100 µg
C11002	MERS-CoV Nucleocapsid Protein, His-SUMO tag, HEK293	5, 20, 100 µg
C11003	SARS-CoV Nucleocapsid Protein, His-SUMO tag, HEK293	5, 20, 100 µg
C11004	SARS-CoV-2 Nucleocapsid Protein, His-SUMO tag, HEK293	5, 20, 100 µg
C11005	SARS-CoV-2 Nucleocapsid Protein, <i>E.coli</i>	5, 20, 100 µg
C11008	Human Coronavirus (OC43) NucleocapsidProtein, His tag, <i>E.coli</i>	5, 20, 100 µg
C11009	Human Coronavirus (HKU1) NucleocapsidProtein, His tag, <i>E.coli</i>	5, 20, 100 µg
C11010	Human Coronavirus (229E) NucleocapsidProtein, His tag, <i>E.coli</i>	100 µg

Human SARS-CoV Nucleocapsid Protein, His-SUMO tag, HEK293

kDa



- Purity>95%
- His-SUMO tag
- Endotoxin <0.01 EU/µg
- HEK293 expressed

Human SARS-CoV-2 Nucleocapsid Protein, His-SUMO tag, HEK293

kDa



- Purity>95%
- His-SUMO tag
- Endotoxin <0.01 EU/µg
- HEK293 expressed

Human SARS-CoV-2 Nucleocapsid Protein, *E. coli*

kDa



- Purity>98%
- Tag free
- Endotoxin <0.01 EU/µg
- *E.coli* expressed

Coronavirus variants of concern

B.1.1.7	Alpha	B.1.351	Beta	P.1	Gamma	B.1.617	Kappa,Delta						
First record: September 2020		First record: October 2020		First record: December 2020		First record: October 2020							
Country of first detection: United Kingdom		Country of first detection: South Africa		Country of first detection: Brazil		Country of first detection: India							
Key mutations													
in the spike protein													
N501Y	All three variants have mutations in this receptor binding domain on the spike protein		E484K and K417N Mutations seen in B.1.351 and P.1		E484Q	L452R 3 lineages identified B.1.617.1 B.1.617.2 B.1.617.3							
Main concerns													
Transmissibility The B.1.1.7 and B.1.351 variants appear to spread more easily and quickly Any change on the spike can potentially affect how easily a virus can infect a cell		Severity of illness Studies on B.1.1.7 submitted to the UK's NERVTAG* in January suggested there could be a link to increased risk of death		Vaccine efficacy Some Studies have suggested B.1.351 and P1 may have mutations that prevent antibodies working as well, though more research is needed Other lab studies have shown that vaccines retain effectiveness against B.1.351 and B.1.1.7		The Indian outbreak While it is unknown if the variant is driving the huge India wave, a WHO official has said that there is "some available information to suggest increased transmissibility" There is also some suggestion of "reduced neutralisation" , but it is too early to say if vaccines are compromised							
<small>*New and Emerging Respiratory Virus Threats Advisory Group</small>													

Sourced and modified from cdc.gov/sciencemediacentre.org/WHO.int

Catching up with the mutants

Genetic variants of SARS-CoV-2 have been emerging and circulating around the world, raising worries that they may draw out the pandemic or make vaccines less effective.

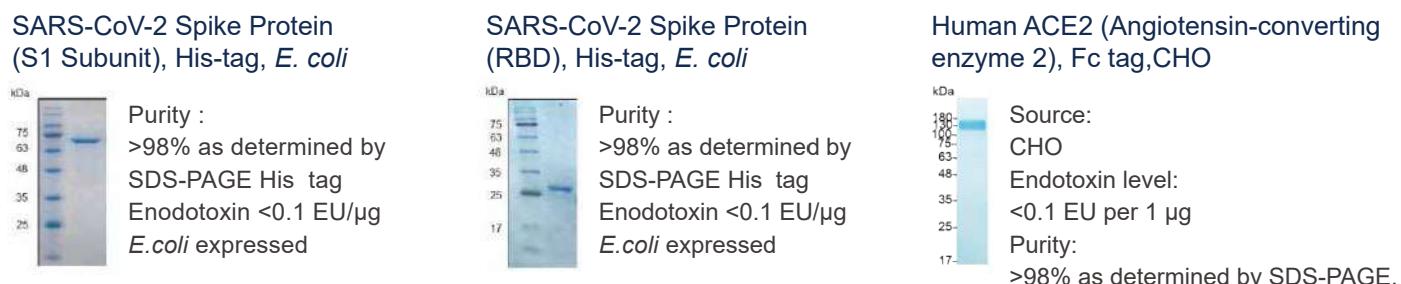
For fighting the COVID-19 with the scientist, CROYEZ develops and provides the SARS-CoV-2 Spike Protein (Delta B1.617.2 Variant) in no-time.

C11016	SARS-CoV-2 Trimeric Spike Protein (Delta B1.617.2 Variant), His Tag, HEK293	100 µg
 Endotoxin level: <0.1 EU per 1 µg of the protein by the LAL method. Purity: >95% as determined by SDS-PAGE analysis. Ni-NTA chromatography	All CROYEZ recombinant proteins are manufactured under ISO 13485:2016 and GMP (Good manufacturing practices for medicinal products) procedure and meet the industry-leading quality specifications: - Ultra low endotoxin - High purity - High stability	

The total solution for reliable SARS-COVID-2 research

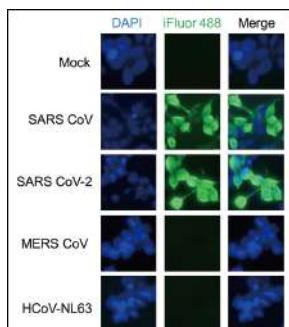
Proteins			
C11006	C11006-100UG	SARS-CoV-2 Spike Protein (S1 Subunit), His tag, <i>E. coli</i>	100 µg
C11007	C11007-100UG	SARS-CoV-2 Spike Protein (RBD), His tag, <i>E.coli</i>	100 µg
	C11011-5UG		5 µg
C11011	C11011-20UG	Human ACE2, Fc tag, CHO	20 µg
	C11011-100UG		100 µg
	C11012-5UG		5 µg
C11012	C11012-20UG	SARS-CoV-2 Spike Protein (RBD), His tag, CHO	20 µg
	C11012-100UG		100 µg
	C11013-5UG		5 µg
C11013	C11013-20UG	SARS-CoV-2 ORF8 Protein (aa 16-121), His-SUMO Tag, HEK293	20 µg
	C11013-100UG		100 µg

Proteins			
C11014	SARS-CoV-2 Trimeric Spike Protein, His Tag, HEK293	100 µg	1 mg
C11015	Human ACE2, Fc tag, HEK293	5 µg	20 µg 100 µg
C11016	SARS-CoV-2 Trimeric Spike Protein (Delta B1.617.2 Variant), His Tag, HEK293	100 µg	1 mg
C11017	SARS-CoV-2 Spike Protein RBD (Delta B1.617.2 Variant), His-SUMO tag, HEK293	100 µg	1 mg
C11019	SARS-CoV-2 Trimeric Spike Protein (Omicron B1.1.529 Variant), His tag, HEK293	100 µg	1 mg
C11020	SARS-CoV-2 Spike Protein RBD, His-SUMO Tag, HEK293	100 µg	
C11021	SARS-CoV-2 Spike Protein RBD (Delta B1.617.2 Variant), tag free, HEK293	100 µg	
C11022	SARS-CoV-2 Spike Protein RBD (Omicron B1.1.529 Variant), tag free, HEK293	100 µg	
C11024	SARS-CoV-2 Nucleocapsid Protein (Omicron B1.1.529 Variant), Tag Free	100 µg	
C11025	SARS-CoV-2 Trimeric Spike Protein (Beta B1.351 Variant), His Tag, HEK293	100 µg	1 mg
C11026	SARS-CoV-2 Nucleocapsid Protein (IHUB.1.640.2 Variant), Tag Free	100 µg	

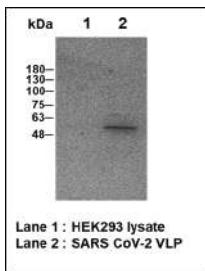
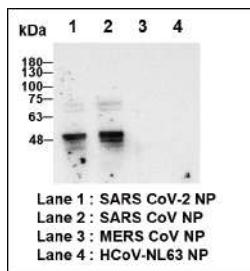


Antibody			
C10004	C10004-bulk C10004-100UG	Human anti-SARS-CoV & CoV-2 NP Antibody (IgG)	Customized package 100 µg
C10005	C10005-bulk C10005-100UG	Human anti-SARS-CoV & CoV-2 Spike Antibody (IgG), clone CR3022	Customized package 100 µg
C10006	C10006-bulk C10006-100UG	Mouse anti-SARS-CoV-2 Spike mAb, clone LGSV201	Customized package 100 µg
C10007	C10007-bulk C10007-10UG C10007-50UG	Human anti-SARS-CoV & CoV-2 NP Antibody (IgA)	Customized package 10 µg 50 µg
C10008	C10008-bulk C10008-50UG	Human anti-SARS-CoV & CoV-2 NP Antibody (IgM)	Customized package 50 µg
C10010	C10010-bulk C10010-50UG	Human anti-SARS-CoV & CoV-2 Spike Antibody (IgM), clone CR3022	Customized package 50 µg
C10011	C10011-bulk C10011-100UG	Mouse anti-SARS-CoV & CoV-2 NP mAb, clone 102-7	Customized package 100 µg
C10012	C10012-bulk C10012-100UG	Mouse anti-SARS-CoV & CoV-2 NP mAb, clone 109-5	Customized package 100 µg
C10022	C10022-bulk C10022-10UG C10022-50UG	Human anti-SARS-CoV & CoV-2 Spike Antibody (IgA), clone CR3022	Customized package 10 µg 50 µg
C10024	C10024-bulk C10024-100UG	Human anti-SARS-CoV & CoV-2 NP Antibody (IgG), clone 103	Customized package 100 µg
C10025	C10025-bulk C10025-100UG	Human anti-SARS-CoV & CoV-2 NP Antibody (IgG), clone 104	Customized package 100 µg

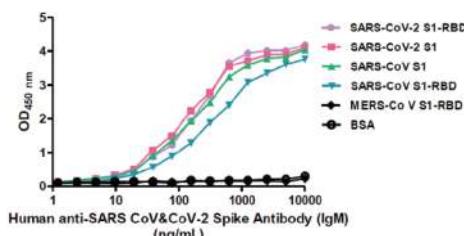
Human anti SARS-CoV&CoV-2 NP antibody , 100 µg,
Cat no : C10004-100UG



1 Ab: Human anti-SARS/SARS-CoV-2 Antibody (Cat no:C10004), 1:1000
2 Ab: Goat anti Human IgG-iFlour 488 (cat no: C04051) 1:1,000



Human anti-SARS-CoV & CoV-2 Spike Antibody (IgM), clone CR3022

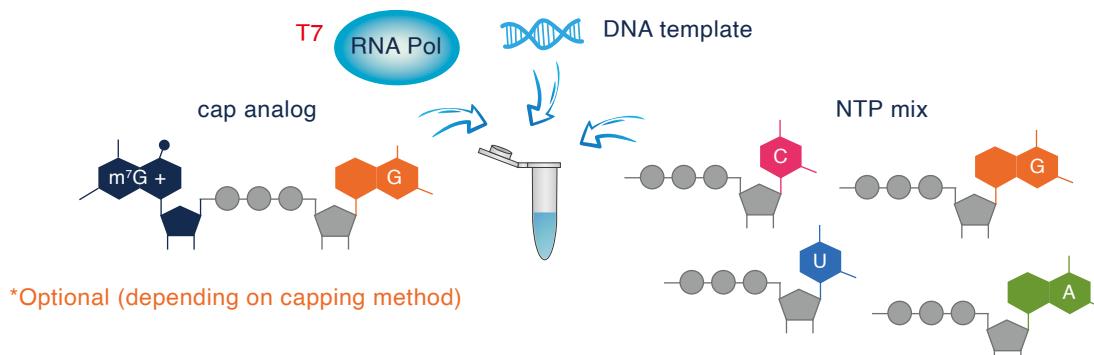


Application	Dilution factor
ELISA	1:5000-20000
NTRL	Assay dependent
SPR	Assay dependent
Crystallography	Assay dependent

References:

- ter Meulen J, van den Brink EN, Poon LL, et al. Human monoclonal antibody combination against t SARS coronavirus: synergy and coverage of escape mutants. PLoS Med. 2006;3(7): e237.
- Yuan M, Wu NC, Zhu X, et al. A highly conserved cryptic epitope in the receptor binding domains of SARS CoV 2 and SARS CoV. Science. 2020;eabb7269.

Comprehensive solutions for IVT RNA production

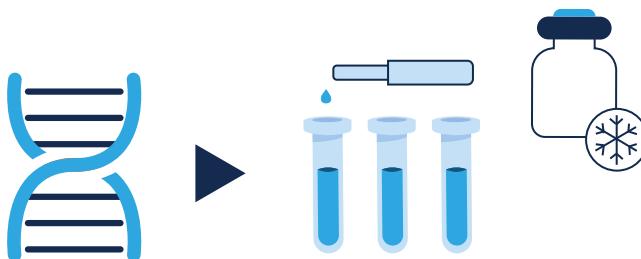


Cat.	Name	Package
C15009	NTP Set, 100 mM Solutions	1 mL *4
C15010	T7 RNA Polymerase	50 U / µL, 5,000 U
		50 U / µL, 25,000 U
		50 U / µL, 50,000 U
	10X RNA Polymerase reaction buffer	200 U / µL, 25,000 U
C15027-K01	T7 RNA Polymerase Transcription Buffer Set	1 mL / 7 vials (A-G)
C15022	ATP Solution (100 mM)	1 mL
C15023	UTP Solution (100 mM)	1 mL
C15024	CTP Solution (100 mM)	1 mL
C15025	GTP Solution (100 mM)	1 mL
C15026	Inorganic Pyrophosphatase (Yeast)	10 U , 50 U

- Comprehensive solutions for IVT RNA production.
- T7 RNA Polymerase is > 98% as determined by SDS-PAGE. Purified by Ni-NTA chromatography.
- Flexible formulation of reaction buffers for choice to figure out the best solution.

Molecular Diagnosis materials

Molecular diagnostics are increasingly used to guide patient management, from diagnosis to treatment, particularly in the fields of cancer, infectious disease, and congenital abnormalities. CROYEZ has launched several groundbreaking products that newly define molecular diagnostics.



Lyophilized PCR products are a new chapter for molecular diagnosis, because

- Room temperature shipping and storage
- Extended shelf-life
- Increased flexibility in sample volume
- No thawing of PCR components and allowing High throughput

Cat.	Name	package
C15013	2X One-Step Probe RT-qPCR Master Mix (Glycerol-Free)	1 mL
C15014	5X One-Step Probe RT-qPCR Master Mix (Glycerol-Free)	1 mL
C15016	2X Probe qPCR Master Mix (Glycerol-Free)	1 mL

- Special formulation for lyophilization, no need additional lyoprotectant.
- Proved perfect lyophilized formation
- No reduction in amplification after lyophilization and reconstitution.

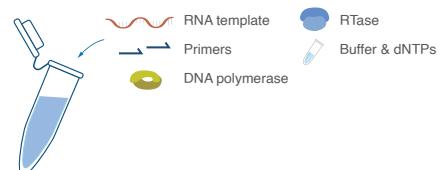
CROYEZ also provides high-quality qPCR products and RT-LAMP products

Cat.	Name	package
C15011	2X One-Step Probe RT-qPCR Master Mix	1 mL
C15012	5X One-Step Probe RT-qPCR Master Mix	1 mL
C15015	2X Probe qPCR Master Mix	1 mL

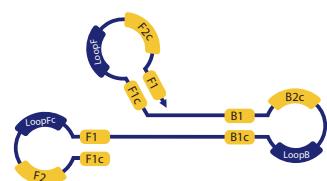
Cat.	Name	package
C15017	2X RT-LAMP Master Mix	1 mL
C15018	2X Colorimetric RT-LAMP Master Mix	1 mL
C15019	Bst DNA Polymerase (Large Fragment)	1,600 U , 8,000 U
C15020	HIV-1 Reverse Transcriptase	200 U
C15021	M-MLV Reverse Transcriptase	20,000 U , 50,000 U
C15028	StablePlus™ 2X RT-LAMP Master Mix	1mL
C15029	StablePlus™ 2X Colorimetric RT-LAMP Master Mix	1mL
C15030	Hot Start Taq DNA Polymerase (Glycerol-Free) (5 U/ μ L)	500 U , 1,000 U
C15031	Hotstart Taq 50 %glycerol (50 U/ μ L)	1,000U
C15032	M-MLV Reverse Transcriptase (Glycerol free) (200 U/ μ L)	20,000 U , 50,000 U
C15033	2X Fluorescent RT-LAMP Master Mix	1mL
C15034	StablePlusTM 2X Fluorescent RT-LAMP Master Mix	1mL
C15035	Bst DNA Polymerase (Large Fragment) (Glycerol-Free)	1,600 U , 8,000 U

- Ion-Sensitive detection method
- Flexible and customized formulation available.

One step RT-qPCR



Loop-Mediated isothermal Amplification, LAMP



Materials for Allergen assays



Allergies occur when a person's immune system mounts an abnormal response with or without IgE to a normally harmless substance called an allergen. The standard annoying or even life-threatening skin-prick test for allergens has been re-considered. New tools such as lab-on-a-chip and lab-on-a-disc, which rely on solid-phase protein microarrays, are designed for allergy testing. These systems provide benefits such as short analysis times, enhanced sensitivity, simplified utilizes/ provides procedures, and minimal consumption of samples and reagents. CROYEZ utilized expertise in protein production and progressively provide antigen proteins and antibody controls for allergen assay development.

Allergen Antigens

Cat.	Name	package
C14029	Recombinant Der p 1 protein	100 µg
C14030	Recombinant Der p 2 protein	100 µg
C14031	Recombinant Gal d 1 protein	100 µg
C14032	Recombinant Gal d 2 protein	100 µg
C14034	Recombinant Der p 23 protein	100 µg
C14035	Recombinant Der f 2 protein	100 µg
C14036	Recombinant Can f 1 protein	100 µg
C14037	Recombinant Fel d 1 protein	100 µg
C14038	Recombinant Art v 1 protein	100 µg
C14039	Recombinant Ara h 2 protein	100 µg
C14040	Recombinant Bos d 8 protein	100 µg
C14041	Recombinant Gliadin protein	100 µg

Allergen Antibodies

Cat.	Name
C14001	Monoclonal Anti-Api m 1 Chimeric Human IgE, clone 16B8
C14002	Monoclonal Anti-Ara h 1 Chimeric Human IgE, clone 16D11
C14003	Monoclonal Anti-Ara h 2 Chimeric Human IgE, clone 2G2
C14004	Monoclonal Anti-Art v 1 Chimeric Human IgE, clone 17H11
C14005	Monoclonal Anti-Bet v 1 Chimeric Human IgE, clone 3B2
C14006	Monoclonal Anti-Bos d 5 Chimeric Human IgE, clone 18B11
C14007	Monoclonal Anti-Bos d 6 Chimeric Human IgE, clone 12A3
C14008	Monoclonal Anti-Bos d 7 Chimeric Human IgE, clone 1E11
C14009	Monoclonal Anti-Bos d 8 Chimeric Human IgE, clone 25D7
C14010	Monoclonal Anti-Can f 1 Chimeric Human IgE, clone 7A9
C14011	Monoclonal Anti-Can f 3 Chimeric Human IgE, clone 16E3
C14012	Monoclonal Anti-Car p 1 Chimeric Human IgE, clone 1C6
C14013	Monoclonal Anti-Der p 1 Chimeric Human IgE, clone 20H4
C14014	Monoclonal Anti-Der p 2 Chimeric Human IgE, clone 38F9
C14015	Monoclonal Anti-Fel d 1 Chimeric Human IgE, clone 19A2
C14016	Monoclonal Anti-Fel d 2 Chimeric Human IgE, clone 4G6
C14017	Monoclonal Anti-Gad m 1 Chimeric Human IgE, clone 1F6
C14018	Monoclonal Anti-Gal d 1 Chimeric Human IgE, clone 5G9
C14019	Monoclonal Anti-Gal d 2 Chimeric Human IgE, clone 9G5
C14020	Monoclonal Anti-Gal d 2 Chimeric Human IgE, clone 8G9
C14021	Monoclonal Anti-Gal d 3 Chimeric Human IgE, clone 3B2
C14022	Monoclonal Anti-Gliadin Chimeric Human IgE, clone 3B7
C14023	Monoclonal Anti-Ole e 1 Chimeric Human IgE, clone 20C7
C14024	Monoclonal Anti-Pen a 1 Chimeric Human IgE, clone 17F3
C14025	Monoclonal Anti-Phl p 1 Chimeric Human IgE, clone 3E12
C14026	Monoclonal Anti-Pla a 1 Chimeric Human IgE, clone 8F1
C14027	Monoclonal Anti-Glutathione S-transferase Chimeric Human IgE, clone 1B7
C14028	Monoclonal Chimeric Human IgE Control, clone 29C11

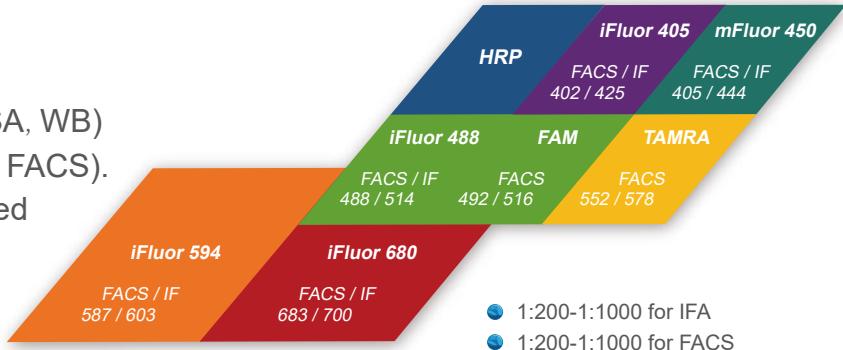
- Used as a control to validate the efficiency of the assay platform
- All monoclonal for repeatable and reliable results

Introduction of Secondary Antibody

With Croyez's expertise and exclusive technologies, our secondary antibodies display high photostability thereby facilitating data collection and analysis. We offer a broad-ranging spectrum of secondary antibody products, including fluorescent and HRP conjugates for varieties of host and target species. Our secondary antibodies design for various applications, including Western Blot, ELISA, immunohistochemistry, immunofluorescence, and flow cytometry.

Advantages

- Complete range of products available.
- A variety of applications :
 - HRP-labeled antibody (IHC, ELISA, WB)
 - Fluorescent-labeled antibody (IF, FACS).
- Bulk package is available for HRP-conjugated products (up to 100 mL).



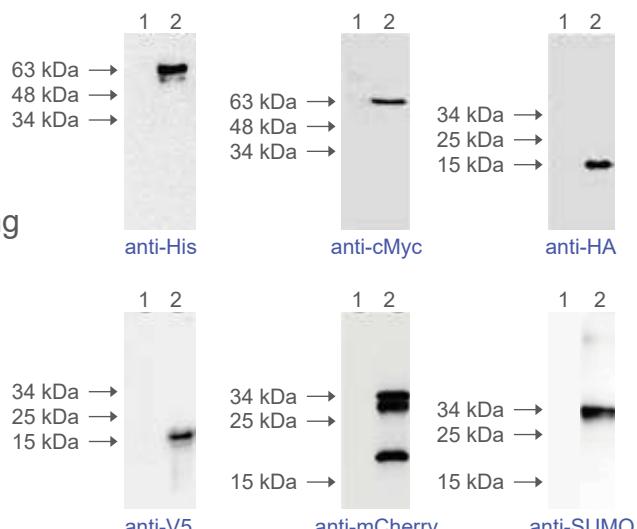
Cat.	Name	Package	Cat.	Name	Package
C04001 - 2ML	Goat anti-Mouse IgG (H+L)-HRP	2x1 mL	C04027 - 1ML 2ML	Goat anti-Mouse IgG-iFluor 680	1 mL 2 mL
C04002 - 1ML 2ML	Goat anti-Rat IgG (H+L)-HRP	1 mL 2 mL	C04028 - 1ML 2ML	Goat anti-Rabbit IgG-iFluor 405	1 mL 2 mL
C04003 - 2ML	Goat anti-Rabbit IgG (H+L)-HRP	2x1 mL	C04029 - 1ML 2ML	Goat anti-Rabbit IgG-mFluor 450	1 mL 2 mL
C04004 - 1ML 2ML	Goat anti-Human IgG (Fc Fragment)-HRP	1 mL 2 mL	C04030 - 1ML 2ML	Goat anti-Rabbit IgG-iFluor 488	1 mL 2 mL
C04005 - 1ML 2ML	Rabbit anti-Mouse IgG (H+L)-HRP	1 mL 2 mL	C04031 - 1ML 2ML	Goat anti-Rabbit IgG-iFluor 594	1 mL 2 mL
C04006 - 1ML 2ML	Donkey anti-Goat IgG (H+L)-HRP	1 mL 2 mL	C04032 - 1ML 2ML	Goat anti-Rabbit IgG-iFluor 680	1 mL 2 mL
C04007 - 1ML 2ML	Sheep anti-Chicken IgY-HRP	1 mL 2 mL	C04033 - 1ML 2ML	Rabbit anti-Mouse IgG-iFluor 405	1 mL 2 mL
C04008 - 1ML 2ML	Chicken anti-Sheep IgG (H+L)-HRP	1 mL 2 mL	C04034 - 1ML 2ML	Rabbit anti-Mouse IgG-iFluor 488	1 mL 2 mL
C04009 - 1ML 2ML	AccuBlot™ anti-Mouse IgG-HRP	1 mL 2 mL	C04035 - 1ML 2ML	Rabbit anti-Mouse IgG-iFluor 594	1 mL 2 mL
C04010 - 1ML 2ML	AccuBlot™ anti-Rabbit IgG-HRP	1 mL 2 mL	C04036 - 1ML 2ML	Goat anti-Rat IgG-iFluor 405	1 mL 2 mL
C04011 - 1ML 2ML	Goat anti-Mouse IgG (H+L)-FAM	1 mL 2 mL	C04037 - 1ML 2ML	Goat anti-Rat IgG-iFluor 488	1 mL 2 mL
C04012 - 1ML 2ML	Goat anti-Mouse IgG (H+L)-TAMRA	1 mL 2 mL	C04038 - 1ML 2ML	Goat anti-Rat IgG-iFluor 594	1 mL 2 mL
C04013 - 1ML 2ML	Goat anti-Rabbit IgG (H+L)-FAM	1 mL 2 mL	C04039 - 1ML 2ML	Sheep anti-Chicken IgY-iFluor 488	1 mL 2 mL
C04014 - 1ML 2ML	Goat anti-Rabbit IgG (H+L)-TAMRA	1 mL 2 mL	C04040 - 1MG	Goat anti-Mouse IgG	1 mg
C04015 - 1ML 2ML	Donkey anti-Goat IgG (H+L)-FAM	1 mL 2 mL	C04041 - 1MG	Goat anti-Rabbit IgG	1 mg
C04016 - 1ML 2ML	Donkey anti-Goat IgG (H+L)-TAMRA	1 mL 2 mL	C04042 - 1MG	Goat anti-Rat IgG	1 mg
C04017 - 1ML 2ML	Sheep anti-Chicken IgY-FAM	1 mL 2 mL	C04043 - 1MG	Goat anti-Human IgG (Fc Fragment)	1 mg
C04018 - 1ML 2ML	Sheep anti-Chicken IgY-TAMRA	1 mL 2 mL	C04044 - 1MG	Rabbit anti-Mouse IgG	1 mg
C04019 - 1ML 2ML	Chicken anti-Sheep IgG-FAM	1 mL 2 mL	C04045 - 1MG	Donkey anti-Goat IgG	1 mg
C04020 - 1ML 2ML	Chicken anti-Sheep IgG-TAMRA	1 mL 2 mL	C04046 - 1MG	Chicken anti-Sheep IgG	1 mg
C04021 - 1ML 2ML	Goat anti-Rat IgG-FAM	1 mL 2 mL	C04047 - 1MG	Mouse anti-Human IgG, clone hG15	1 mg
C04022 - 1ML 2ML	Goat anti-Rat IgG-TAMRA	1 mL 2 mL	C04048 - 1MG	Mouse anti-Human IgG, clone hG17	1 mg
C04023 - 1ML 2ML	Goat anti-Mouse IgG-iFluor 405	1 mL 2 mL	C04049 - 1MG	Mouse anti-Human IgM, clone hM10	1 mg
C04024 - 1ML 2ML	Goat anti-Mouse IgG-mFluor 450	1 mL 2 mL	C04050 - 1MG	Sheep anti-Chicken IgY	1 mg
C04025 - 1ML 2ML	Goat anti-Mouse IgG-iFluor 488	1 mL 2 mL	C04051 - 1MG 2ML	anti-Human IgG-iFluor 488	1 mL 2 mL
C04026 - 1ML 2ML	Goat anti-Mouse IgG-iFluor 594	1 mL 2 mL	-	-	-

Introduction of Tag and Internal Control Antibody

Specializing in Croyez's monoclonal antibody technologies, our tag and internal control antibodies perform high sensitivity and good reproducibility against target molecules. Croyez provides a variety of high-affinity antibodies, which can be applied in many areas of bioscience research, including Western Blot, ELISA, immunofluorescence, immunoprecipitation, and flow cytometry.

Advantages

- Complete range of products available.
- High specificity and sensitivity.
- Applied to several immunoassays including ELISA, WB, IP, IFA and FACS.
- To identify fusion proteins expressed in hosts, including bacteria, yeast, and mammalian cells.



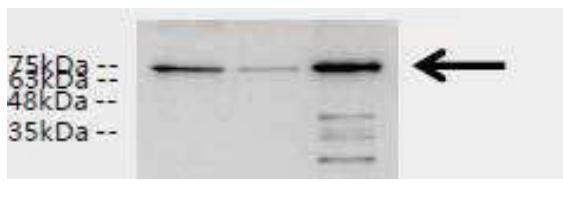
Cat.	Name	Package
C05002	Mouse anti-His tag mAb, clone 14-4	100 µg 1000 µg
C05005	Mouse anti-cMyc tag mAb, clone 66-38	100 µg 1000 µg
C05006	Mouse anti-V5 tag mAb, clone 7-1-8	100 µg 1000 µg
C05007	Mouse anti-GST tag mAb, clone 89-3	100 µg 1000 µg
C05008	Mouse anti-EGFP mAb, clone 42-2	100 µg 1000 µg
C05009	Mouse anti-SUMO mAb	100 µg 1000 µg
C05010	Mouse anti-mCherry mAb	100 µg 1000 µg
C05011	Mouse anti-DYKDDDDK mAb	100 µg 1000 µg
C05012	Mouse anti-HA tag mAb, clone 98-106	100 µg 1000 µg
C06002	Mouse anti-alpha tubulin mAb, clone 82-1	100 µg 1000 µg
C06003	Normal Mouse IgG	5 mg
C06004	Normal Rabbit IgG	5 mg 10 mg
C06005	Normal Goat IgG	5 mg 10 mg
C06006	Mouse IgG1 Kappa Isotype Control Antibody	Customized package - 1 mg
C06007	Mouse IgG2a Kappa Isotype Control Antibody	Customized package - 1 mg
C06008	Mouse IgG2b Kappa Isotype Control Antibody	Customized package - 1 mg
C06009	Mouse IgG3 Kappa Isotype Control Antibody	Customized package - 1 mg
C06010	Mouse IgM Kappa Isotype Control Antibody	Customized package - 1 mg
C06011	Mouse IgA Kappa Isotype Control Antibody	Customized package - 1 mg
C06012	Mouse anti-GAPDH mAb, clone 38-1	100 µg 1000 µg

Introduction of Purification Beads

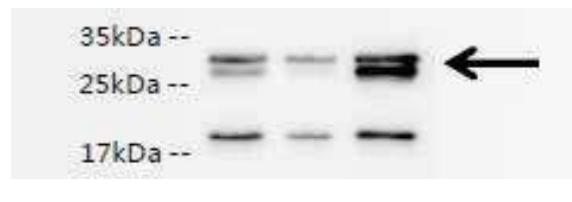
CROYEZ provided premium-quality beads for capturing target proteins. These products demonstrate high sensitivity and efficiency against target molecules. These products are excellent for investigating protein-protein interaction and purification of target proteins.

Advantages

- Suitable to purify proteins from various expression systems.
- Wide range of application such as IP, Co-IP, ChIP, etc.
- High affinity.
- Purified protein can be used for downstream experiment such as protein identification.



Anti-EGFP VHHAb
Sepharose



Anti-mCherry VHHAb
Sepharose

Packing Method	Large Amount Packing	Small Amount Packing
Time	Long (4 hrs)	Short (2 hrs)
Yields	20 mg / 1 mL Gel	0.1-1 mg / 15 µL Gel

Cat.	Name	Package
C07001	250UL	0.25 mL
	2ML	2 mL
	5ML	5 mL
	K01	5 rxns
	K02	10 rxns
C07002	250UL	0.25 mL
	2ML	2 mL
	5ML	5 mL
	K01	5 rxns
	K02	10 rxns
C07003	250UL	0.25 mL
	2ML	2 mL
	5ML	5 mL
	K01	5 rxns
	K02	10 rxns

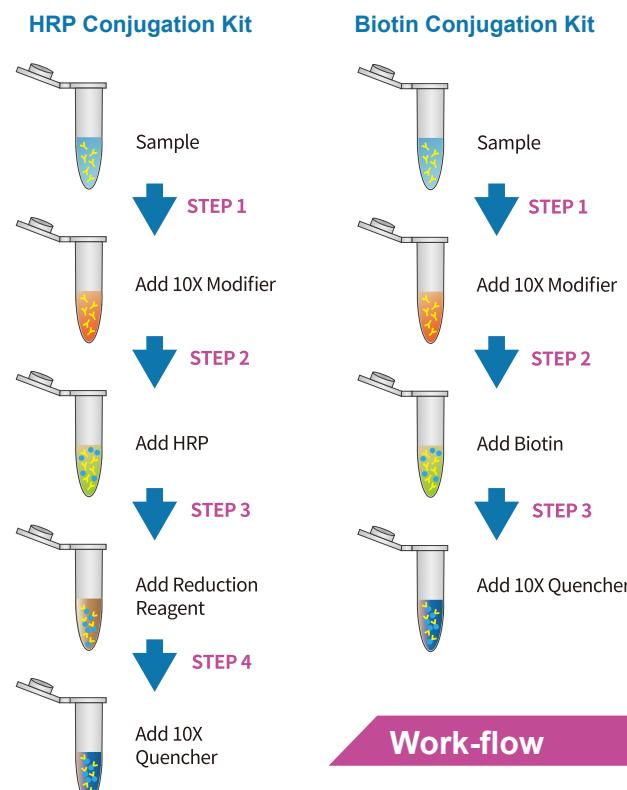
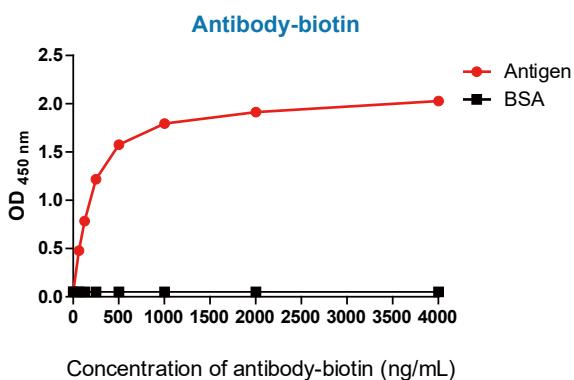
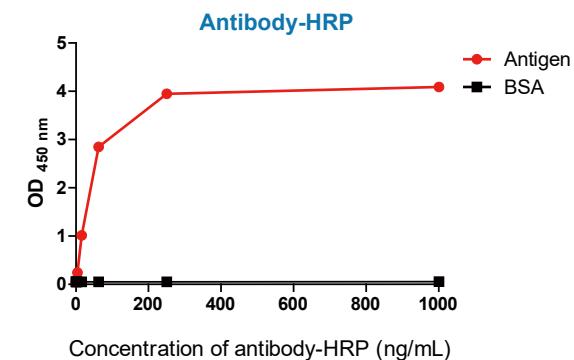
Cat.		Name	Package
C07004	250 UL	Mouse anti-GST tag mAb sepharose	0.25 mL
	2ML	Mouse anti-GST tag mAb sepharose	2 mL
	5ML	Mouse anti-GST tag mAb sepharose	5 mL
	K01	Mouse anti-GST tag mAb sepharose Purification kit	5 rxns
	K02	Mouse anti-GST tag mAb sepharose Purification kit	10 rxns
C07005	250UL	Protein A sepharose	0.25 mL
	2ML	Protein A sepharose	2 mL
	5ML	Protein A sepharose	5 mL
	K01	Protein A sepharose Purification kit	5 rxns
	K02	Protein A sepharose Purification kit	10 rxns
C07006	250UL	Protein G sepharose	0.25 mL
	2ML	Protein G sepharose	2 mL
	5ML	Protein G sepharose	5 mL
	K01	Protein G sepharose Purification kit	5 rxns
	K02	Protein G sepharose Purification kit	10 rxns
C07007	250UL	Streptavidin sepharose	0.25 mL
	2ML	Streptavidin sepharose	2 mL
	5ML	Streptavidin sepharose	5 mL
	K01	Streptavidin sepharose Purification kit	5 rxns
	K02	Streptavidin sepharose Purification kit	10 rxns
C07008	5ML	Ni-NTA sepharose	5 mL
	10ML	Ni-NTA sepharose	10 mL
	50ML	Ni-NTA sepharose	50 mL
	K01	Ni-NTA sepharose Purification kit	5 rxns
	K02	Ni-NTA sepharose Purification kit	10 rxns
C07009	250UL	Anti-EGFP sepharose	0.25 mL
	2ML	Anti-EGFP sepharose	2 mL
	5ML	Anti-EGFP sepharose	5 mL
	K01	Anti-EGFP sepharose Purification kit	5 rxns
	K02	Anti-EGFP sepharose Purification kit	10 rxns
C07010	250UL	Mouse anti-SUMO mAb sepharose	0.25 mL
	2ML	Mouse anti-SUMO mAb sepharose	2 mL
	5ML	Mouse anti-SUMO mAb sepharose	5 mL
	K01	Mouse anti-SUMO mAb sepharose Purification kit	5 rxns
	K02	Mouse anti-SUMO mAb sepharose Purification kit	10 rxns
C07011	250UL	Anti-mCherry sepharose	0.25 mL
	2ML	Anti-mCherry sepharose	2 mL
	5ML	Anti-mCherry sepharose	5 mL
	K01	Anti-mCherry sepharose Purification kit	5 rxns
	K02	Anti-mCherry sepharose Purification kit	10 rxns
C07012	250UL	Goat anti-Mouse IgG sepharose	0.25 mL
	2ML	Goat anti-Mouse IgG sepharose	2 mL
	5ML	Goat anti-Mouse IgG sepharose	5 mL
C07013	250UL	Goat anti-Rabbit IgG sepharose	0.25 mL
	2ML	Goat anti-Rabbit IgG sepharose	2 mL
	5ML	Goat anti-Rabbit IgG sepharose	5 mL
C07014	250UL	Mouse anti-DYKDDDDK mAb sepharose	0.25 mL
	2ML	Mouse anti-DYKDDDDK mAb sepharose	2 mL
	5ML	Mouse anti-DYKDDDDK mAb sepharose	5 mL
	K01	Mouse anti-DYKDDDDK mAb sepharose Purification kit	5 rxns
	K02	Mouse anti-DYKDDDDK mAb sepharose Purification kit	10 rxns

Introduction of Protein Conjugation Kits

Conjugation of protein/antibody with molecular labeling is an essential tool in biological research. Croyez HRP conjugation kit and biotin conjugation kit provide a simple, direct, and one-step method of labeling target protein/antibody efficiently. Conjugated products can be used in various applications, including ELISA, Western Blot, immunohistochemistry and flow cytometry.

Advantages

- High efficiency for labeling.
- Simple workflow to save time.
- Flexible options for conjugation.
- Labeled / conjugated products can be used in ELISA, WB, IHC, FACS, etc.



Work-flow

Cat.	Name	Package
C08001	10 HRP Conjugation Kit	10 µg/set
	100 HRP Conjugation Kit	100 µg/set
	1000 HRP Conjugation Kit	1 mg/set
C08002	10 Biotin Conjugation Kit	10 µg/set
	100 Biotin Conjugation Kit	100 µg/set
	1000 Biotin Conjugation Kit	1 mg/set

Introduction of Detection Reagent

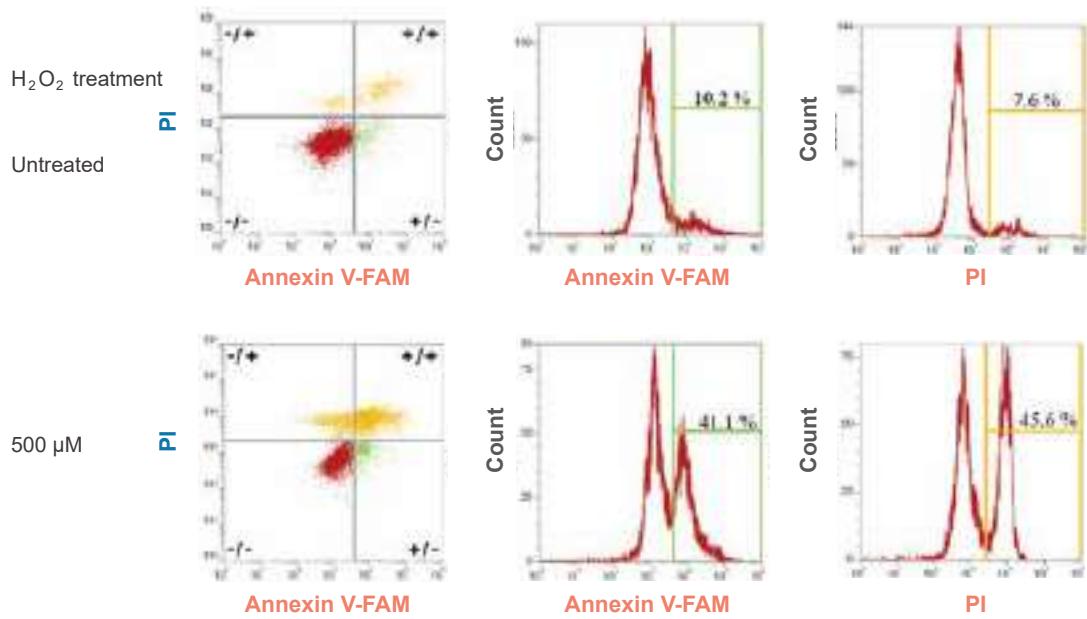
Apoptosis, also called programmed cell death, plays a fundamental role in the development of multicellular biology. During early apoptosis, cells will translocate membrane phosphatidylserine (PS) from the intracellular side of the plasma membrane to the cell surface. Since Annexin V can preferentially bind to PS, it is used as an indicator of apoptosis. Croyez offers several fluorescent Annexin V conjugates for studying apoptotic cells-assays, which can be done within 20 minutes without washing step.

Advantages

- High sensitivity.
- High stability and intensity.
- High accuracy and reproducibility.
- Easy and ready-to-use.
- No washing steps are required.

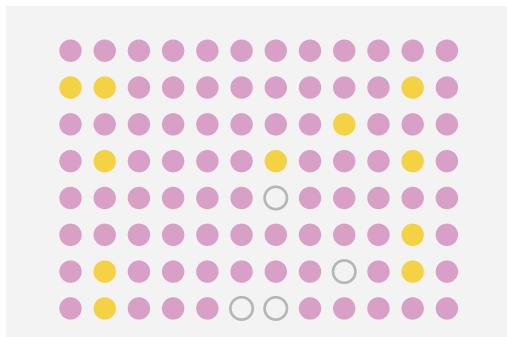
Annexin V-FAM/TAMRA – Performance Data

K562 cells were treated with H₂O₂ for 16 hours, and then stained using Annexin V-FAM+PI and propidium iodide (PI) provided in the Annexin V-FAM+PI Apoptosis Detection Reagent.



Cat.	Name	Package
C08003 - K01 K02 K03	Annexin V-FAM Apoptosis Detection Reagent	25 rxns 50 rxns 100 rxns
C08004 - K01 K02 K03	Annexin V-FAM + PI Apoptosis Detection Reagent	25 rxns 50 rxns 100 rxns
C08005 - K01 K02 K03	Annexin V-TAMRA Apoptosis Detection Reagent	25 rxns 50 rxns 100 rxns
C08006 - K01 K02 K03	Annexin V-iFluor 488 + PI Apoptosis Detection Reagent	25 rxns 50 rxns 100 rxns
C08007 - K01 K02 K03	Annexin V-iFluor 594 + 7-AAD Apoptosis Detection Reagent	25 rxns 50 rxns 100 rxns
C08008 - K01 - -	Annexin V-FAM + 7-AAD Apoptosis Detection Reagent	- - 100 rxns
C08003 - K01-1 K02-1 K03-1	Annexin V-FAM	25 rxns 50 rxns 100 rxns
C08005 - K01-1 K02-1 K03-1	Annexin V-TAMRA	25 rxns 50 rxns 100 rxns

Complete solution for antibody development.

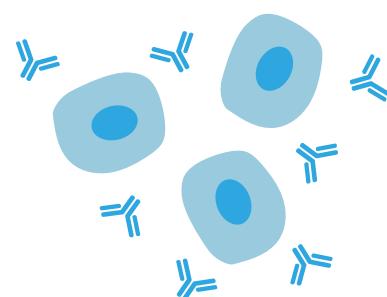


- Isotyping screening
- Hybridoma sequencing

- Affinity and Kinetic analysis by SPR (Biacore)



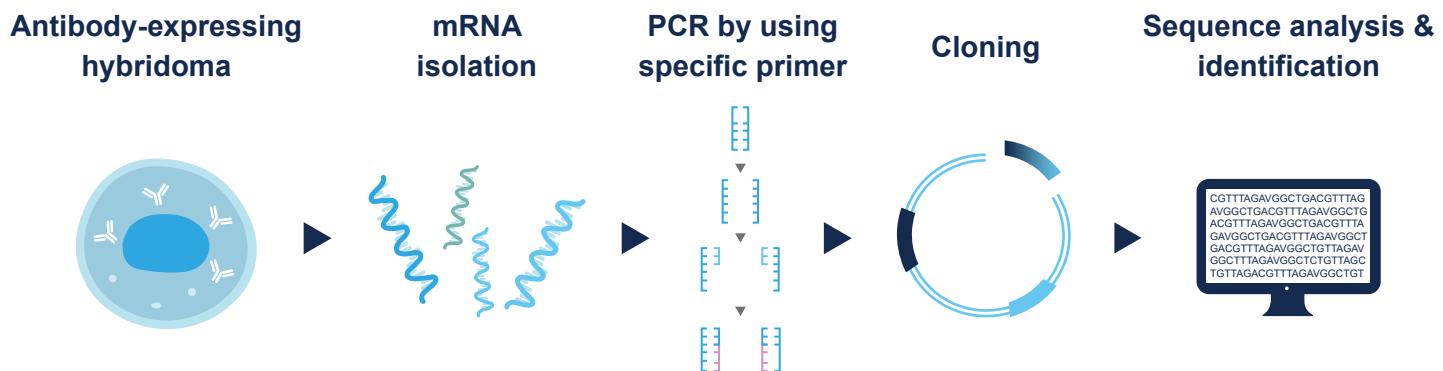
- Humanization
- Clone plasmid production



- Recombinant Production

Hybridoma sequencing

Hybridoma sequencing refers to the process of obtaining sequence information regarding the cDNA encoding the variable heavy (VH) and the variable light (VL) domains of the antibody produced by the hybridoma cell line. Antibodies generated by this method can be produced via recombinant expression in a mammalian expression system. Alternatively, the full-length sequence can also be derived from hybridoma sequencing to enable antibody production via recombinant expression and to serve as an insurance policy to secure the source of the antibody in case of losing the hybridoma cell line due to contamination or other reasons.



Trust CROYEZ

- All information will be kept confidential.
- Our professional team will discuss the application of antibodies with you.
- The customized and flexible service for recombinant antibody production according to clients' requirements.

Deliverables

- A final report on the sequences of the heavy and light chains in the variable region, including the CDS sequence.
- Clone construct (optional)
- Recombinant antibody production (optional)

Protein Expression

Various fusion tags to choose

- His
- His-Trx
- His-SUMO
- GST
- Fc

well-experienced in solving inclusion body

- well-established standard workflow of protein reconstructing and folding
- Retaining protein activity

Features

- Proteins are manufactured under GMP regulations.
- Protein expression test will be performed before scaling up.
- Extensive experience in solving problems of protein aggregation or low expression level.

Multiple expression systems



Mammalian
HEK293 cells
CHO cells

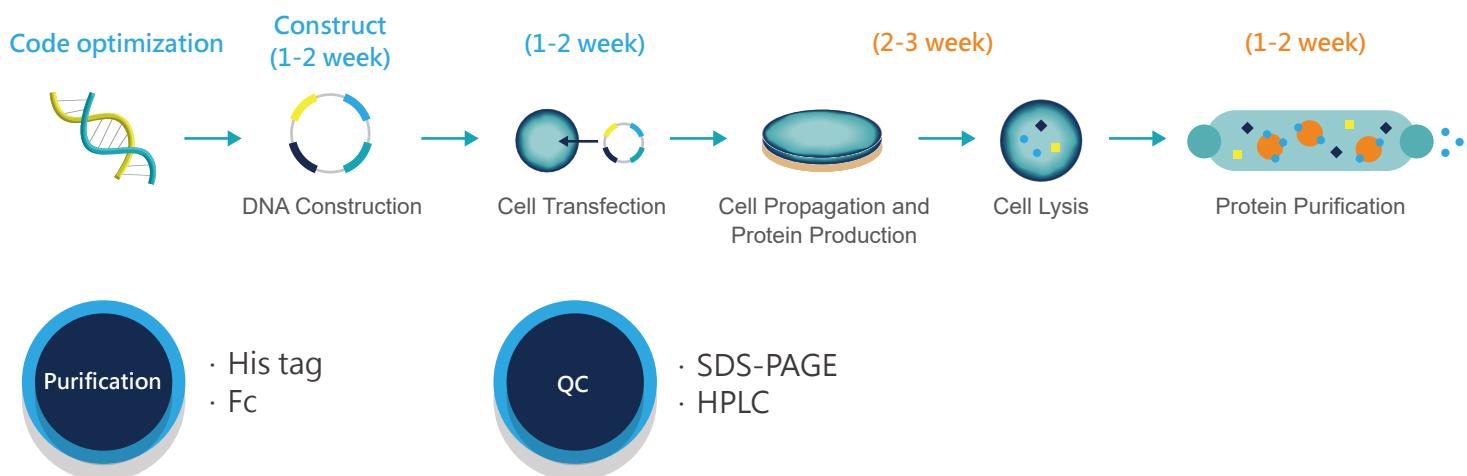


Insect
sf9 cells
sf21 cells
s2 cells



Bacteria
E. Coli

Workflow



Choose CROYEZ, choose smartly for quality and affordable protein product:

- *E. Coli* expression: 3- 5 mg
- Insect/mammalian: minimum 100 ug
- Customized amount.

Optional Service

- Ultra-low endotoxin (bacterial system, < 0.1 EU/μg).
- Endotoxin removal.
- Protein activity detection.
- Purity determination by HPLC.
- Protein lyophilization.
- Tag removal service.

Lateral Flow development

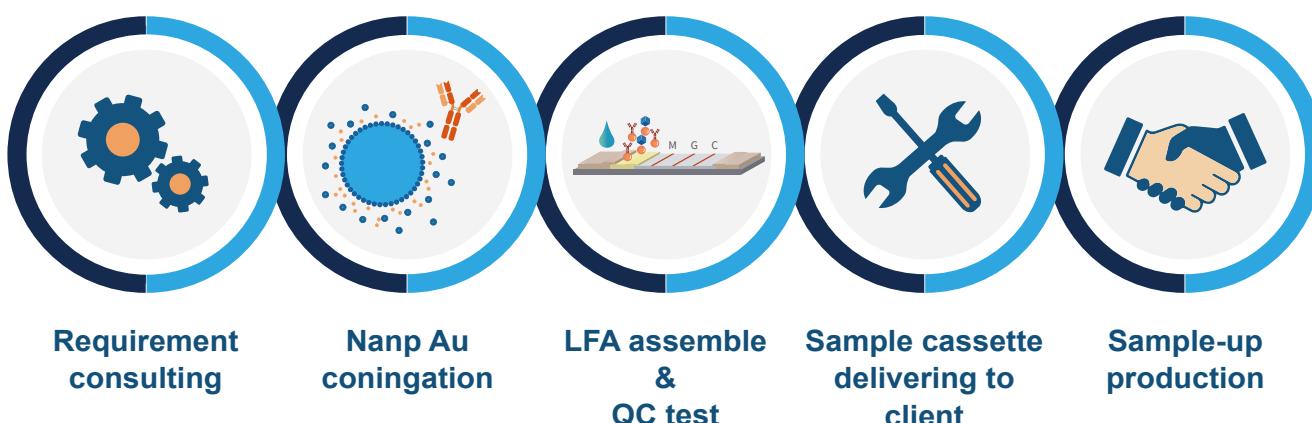
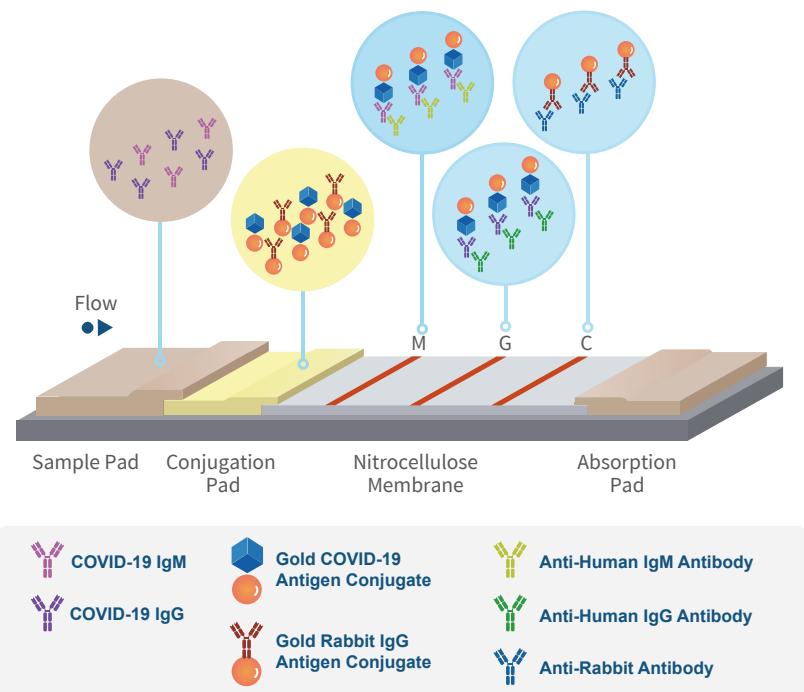
Rapid test, also known as lateral flow assay (LFA), is widely developed and used for personal and home test, because it is simple to use without any specialized and expensive equipment or lab technique and fast reading time.

The design and materials within a rapid test contribute to its sensitivity and specificity, which usually include:

- Antigen
- Antibody
- Colloidal gold

CROYEZ, provides comprehensive development service of rapid test, including

- Material manufacturing
- Colloidal gold conjugation
- Design assemble



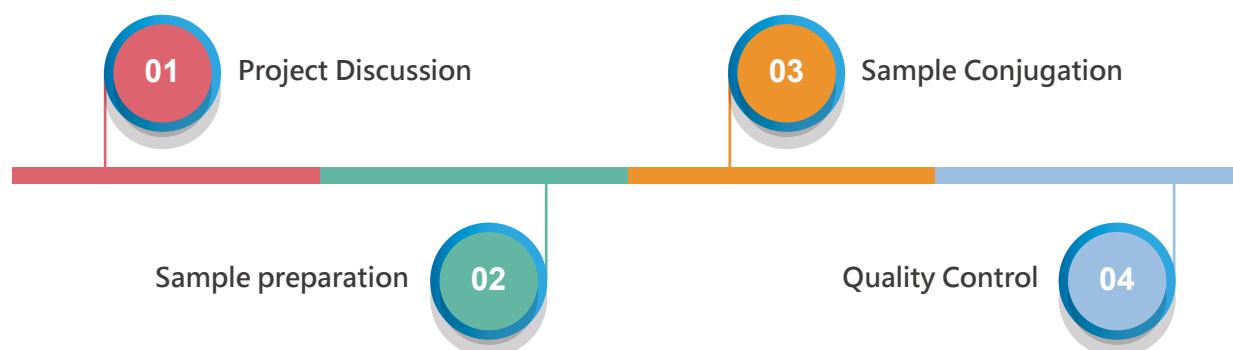
Introduction of Bead Antibody Conjugation Service

Croyez provides antibody conjugation service on beads with high efficiency and stable immunoaffinity sepharose. We offer high-quality conjugates, which are designed for the needs of customers.

Advantages

- Unique activation system increase binding efficiency.
- Customized service available.

Service procedures



Requirement

- Sample :
 - Total amount: > 1 mg (antibody)

We Provided

- 5-10 mg/mL of protein or antibody sepharose.
- 0.1-1 mg/mL of small molecule sepharose.

Quality Control

- SDS-PAGE



Croyez is Your Best Friend
for Research.

To accomplish your research work efficiently and precisely, we provide "Croyed" to fulfill all of your creativity needs in biomedical fields.

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