

COVID-19 products

Learn more about Human Coronavirus

Coronaviruses are enveloped RNA viruses which are characterized by spike proteins that project from the surface (which gives the coronavirus its name). There are seven strains of coronavirus strains that commonly infect people worldwide, including two alpha coronaviruses (HCoV-229E and HCoV-NL63) and five beta coronaviruses (HCoV-HKU1, HCoV-OC43, MERS-CoV, SARS-CoV, and the newly-identified SARS-CoV-2).

The Nucleocapsid Protein

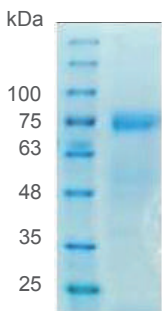
Nucleocapsid protein (NP) packages the positive strand viral genome RNA into a helical ribonucleocapsid (RNP) and plays a fundamental role during virion assembly through its interactions with the viral genome and membrane protein M. NP also plays an important role in enhancing the efficiency of sub-genomic viral RNA transcription as well as viral replication.

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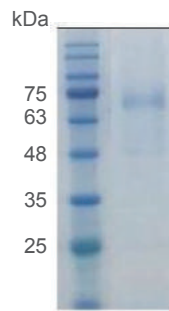
Cat.	Name	Package
C11001	Human Coronavirus (NL63) Nucleocapsid Protein, His-SUMO tag, HEK293	5, 20, 100 µg
C11002	MERS-CoV Nucleocapsid Protein, His-SUMO tag, HEK293	5, 20, 100 µg
C11003	SARS-CoV Nucleocapsid Protein, His-SUMO tag, HEK293	5, 20, 100 µg
C11004	SARS-CoV-2 Nucleocapsid Protein, His-SUMO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

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



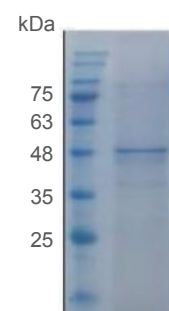
- Purity >98% as determined by SDS-PAGE
- His-SUMO tag
- Endotoxin <0.1 EU/µg
- HEK293 expressed

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



- Purity >95% as determined by SDS-PAGE
- His-SUMO tag
- Endotoxin <0.1 EU/µg
- HEK293 expressed

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

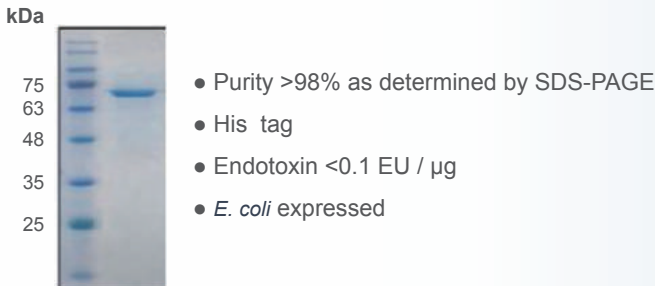


- Purity >95% as determined by SDS-PAGE
- Tag-free
- Endotoxin <0.1 EU/µg
- *E. coli* expressed

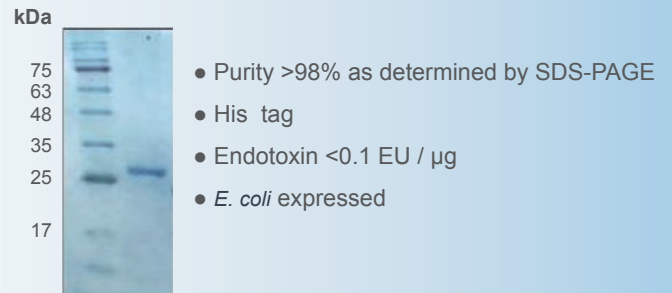


The spike glycoprotein plays an indispensable role in the binding of the virus to the host cell during the infection process. The spike protein is a large type I transmembrane protein composed of two subunits, N-terminal S1 domain and C-terminal S2 domain. S1 subunit mainly contains a receptor binding domain (RBD), which allows coronaviruses to directly binds to the cell surface receptor.

SARS-CoV-2 Spike Protein (S1 Subunit), His-tag, *E. coli*



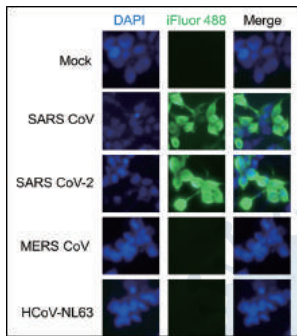
SARS-CoV-2 Spike Protein (RBD), His-tag, *E. coli*



Cat.	Name	Package
C11006	SARS-CoV-2 Spike Protein (S1 Subunit), His tag, <i>E. coli</i>	100 µg
C11007	SARS-CoV-2 Spike Protein (RBD), His tag, <i>E. coli</i>	100 µg

Cat no : C10004

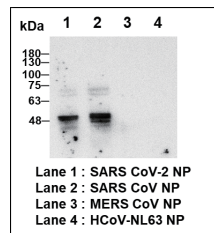
Human anti-SARS-CoV&CoV-2 NP Antibody



Primary antibody :
Human anti-SARS-CoV&CoV-2 NP Antibody (Cat no: C10004), 1:500

Secondary antibody :
Goat anti Human IgG-iFluor 488 (Cat no: C04051), 1:1,000

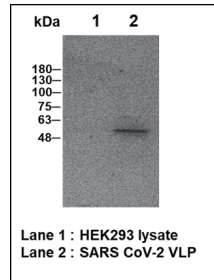
Immunofluorescence analysis of Human anti-SARS-CoV & CoV-2 NP antibody



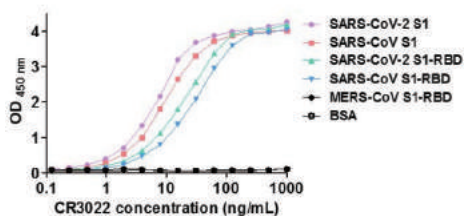
Primary antibody :
Human anti-SARS-CoV&CoV-2 NP Antibody, (Cat no: C10004), 1:1,000

Secondary antibody :
Donkey anti-human IgG-HRP, 1:10,000

Western blotting analysis of Human anti-SARS-CoV&CoV-2 NP antibody

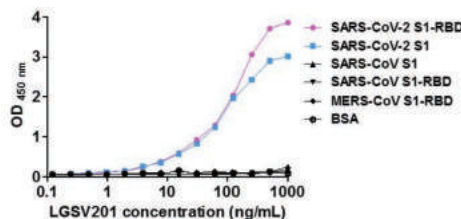


Human anti-SARS-CoV & CoV-2 Spike antibody

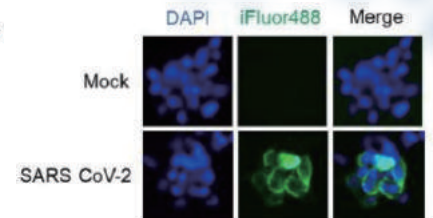


ELISA titration of Human anti-SARS-CoV & CoV-2 Spike antibody

Mouse anti-SARS-CoV-2 Spike mAb

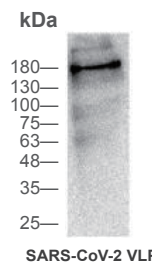


ELISA titration of Mouse anti-SARS-CoV-2 Spike mAb



Immunofluorescence analysis of Mouse anti-SARS-CoV-2 Spike mAb (1:1000)

Cat.	Name	Package
C10005	Human anti-SARS-CoV & CoV-2 Spike antibody	100 µg
C10006	Mouse anti-SARS-CoV-2 Spike mAb	100 µg



Western blotting analysis of Mouse anti-SARS-CoV-2 Spike mAb (1:5000)

