CROYEZ
Croyez Bioscience Co., Ltd.

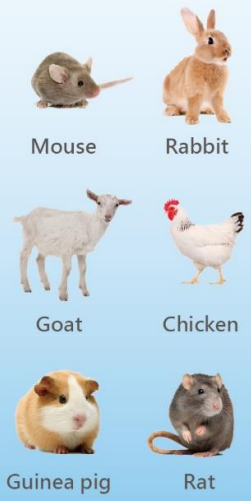
VHH antibody

Variable domain of heavy-chain antibody

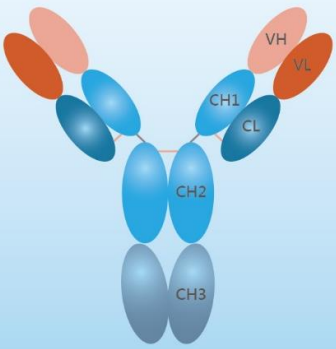
Also known as nanobody, named from its size, is the smallest antigen-binding fragments (~ 15 kDa) that is derived from heavy chain only antibodies present in camelids (camels and llamas)

Small size, Robust effects!

- Comparable or even greater affinity to antigen as whole antibody.
- Nano- to pico-molar affinities.
- Capable of binding hidden epitopes(e.g. enzyme avtive sites).
- Detection of endogenous native protein.
- Resistant and stable towards heat detergents and high concentration of urea.

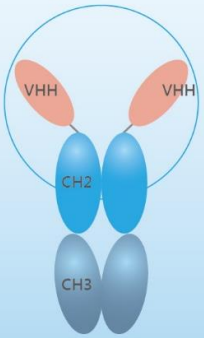


Light chain+heavy chain

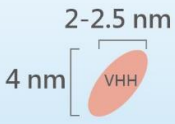


Human IgG Immunoglobulin
≃ 150 kDa

heavy chain only



Llama Immunoglobulin
≃ 80 kDa



Smallest you ever know!

Camelid
(Llama and camel)

Cartilaginous fishes
(shark etc.)

Free from the interruption signals of light chain and heavy chain!

When performing westerm blot analysis after immunoprecipitated (IP) or Co-immunoprecipitated (Co-IP), traditional anti-IgG (H+L) secondary antibody detects two bands including light and heavy chains(~25 and ~55 kDa, respectiviely). These non-specific signals often partially or even completely mask the target protein signal, which seriously obscure the result.

CROYEZ VHH-conjugated sepharose beads

Anti-EGFP sepharose

Anti-EGFP VHH antibody was conjugated to NHS-sepharose. Croyez anti-EGFP sepharose has 6-10 mg mAb conjugated per mL of settled sepharose.

Features

Product type :
VHH

Immunogen :
Recombinant EGFP VHH

Conjugation :
Sepharose

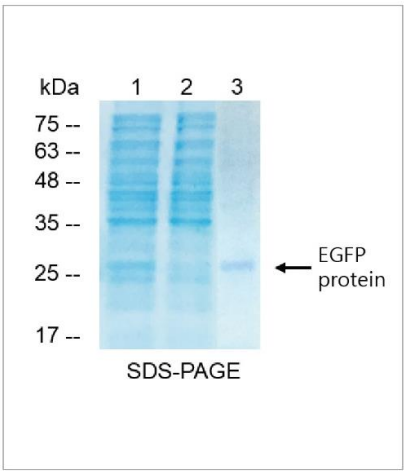
Isotype :
IgG2a kappa

Form :
50% slurry

Storage buffer :
20% ethanol

Storage :
Store at 4℃.

Application :
IP



Immunoprecipitation of EGFP with anti-EGFP sepharose

- Lane 1 : EGFP overexpressed lysate
- Lane 2 : Flow-Through
- Lane 3 : Elution

Anti-mCherry sepharose

Anti-mCherry VHH antibody was conjugated to NHS-sepharose beads. Croyez Mouse anti-mCherry mAb sepharose has 6-10 mg mAb conjugated per mL of settled sepharose.

Features

Product type :
VHH

Immunogen :
Recombinant mCherry VHH

Conjugation :
Sepharose

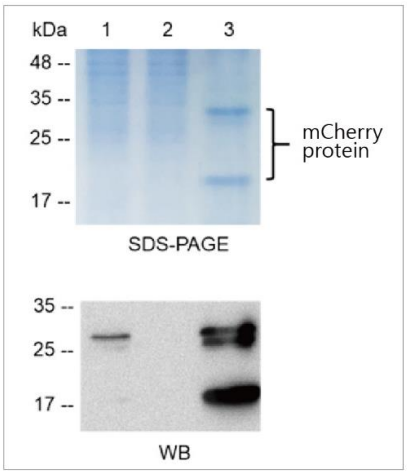
Isotype :
IgG2a kappa

Form :
50% slurry

Storage buffer :
20% ethanol

Storage :
Store at 4℃.

Application :
IP



Immunoprecipitation of mCherry tagged with anti-mCherry sepharose

- Lane 1 : mCherry tag fusion protein overexpressed lysate
- Lane 2 : Flow-Through
- Lane 3 : Elution

BTW! Special for the IP samples of conventional IgG

AccuBlot™ anti-IgG-HRP series

- AccuBlot™ anti-Mouse IgG-HRP, #C04009
- AccuBlot™ anti-Rabbit IgG-HRP, #C04010

New generation secondary antibody which specifically recognize native form IgG.

- Conjugated with highly-active HRP
- Species specificity

Validation data

AccuBlot™ anti-Rabbit IgG, #C04010

Goat anti-Rabbit IgG-HRP

Great specificity, strong signal, and only recognize native IgG!

AccuBlot™ anti-Rabbit IgG-HRP

Lane 1 : Denature Mouse IgG
Lane 2 : Denature Rabbit IgG
Lane 3 : Protein G sepharose
Lane 4 : Denature Mouse IgG with Protein G sepharose
Lane 5 : Denature Rabbit IgG with Protein G sepharose
Lane 6 : Blank
Lane 7 : Native Mouse IgG
Lane 8 : Native Rabbit IgG

Goat anti-Rabbit IgG (H+L)-HRP

Lane 1 : Denature Mouse IgG
Lane 2 : Denature Rabbit IgG
Lane 3 : Protein G sepharose
Lane 4 : Denature Mouse IgG with Protein G sepharose
Lane 5 : Denature Rabbit IgG with Protein G sepharose
Lane 6 : Blank
Lane 7 : Native Mouse IgG
Lane 8 : Native Rabbit IgG