

Anti-Goat IgG(Fcγ Fragment specific), AlpSdAbs® VHH(Biotin)

Summary

Code	054-101-004
Immunogen	Recombinant Fc region of goat IgG
Host	Alpaca pacous
Isotype	VHH domain of alpaca IgG2b/2c
Conjugate	Biotin-SP (long spacer)
Specificity	Fc region of goat IgG
Cross-Reactivity	No cross-reactivity with mouse, rabbit, human, cynomolgus, rat IgG
Purity	Recombinant Expression and Affinity purified
Size	100ug
Buffer	10mM PBS (pH 7.5), 0.05% sucrose, 0.1% trehalose, 0.01% proclin300
Formation	Freeze-dried Powder, Store at 2-8 °C
Rehydration	Rehydrated by 100uL dH2O(Final concentration:1mg/mL)
Storage after Rehydration	-20 °C(Avoid freeze/thaw cycles), Stable for 12 months at -20°C

Description

Anti-Goat IgG(Fcγ Fragment specific), AlpSdAbs® VHH(Biotin) is designed for detecting Fc region of goat IgG specifically. Anti-Goat IgG(Fcγ Fragment specific), AlpSdAbs® VHH(Biotin) is based on monovalent, recombinant single domain antibodies to goat IgG(Fcγ Fragment specific) coupled to Biotin. Based on immunoelectrophoresis and/or ELISA, Anti-Goat IgG(Fcγ Fragment specific), AlpSdAbs® VHH(Biotin) reacts with the Fc region of goat IgG selectively, no reactivity with mouse, rabbit, human, cynomolgus, rat IgG.

Background

Goat antibodies are commonly used in biotechnology. They are used to prepare diagnostic reagents of immunochemical techniques. Goat IgG molecule possesses both the Fc region and the Fab region, which possessing the epitope-recognition site. The IgG contains two heavy and light chains. The heavy chain is about 50 KD and the light chain is about 25 KD. The common IgG is monomeric with a molecular weight of approximately 150 kDa.

VHH are single-domain antibodies derived from the variable regions of heavy chain of Camelidae immunoglobulin. The size of VHH is extremely small(<15KDa) compared to other forms of antibody fragment, which significantly increase the permeability of VHH. Thus VHH is considered of great value for research, diagnostics and therapeutics.

Benefits

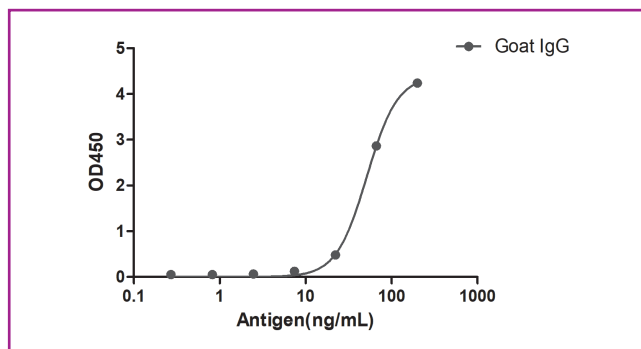
High lot-to-lot consistency
Increased sensitivity and higher affinity
Animal-free production

Suggested Working Concentration

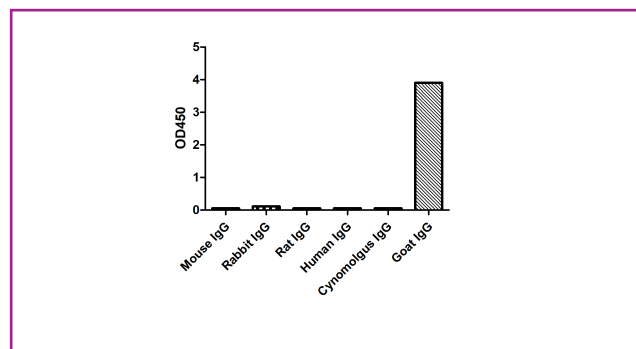
ELISA	1:5000-1:20000
WB	1:5000-1:20000

Dilution factors are presented in the form of a range because the optimal dilution is a function of many factors, such as antigen density, permeability, etc. The actual dilution used must be determined empirically.

This product is for research use only and is not approved for use in humans or in clinical



A titration ELISA of Goat IgG. The plate was coated with different amounts of Goat IgG. 1:5000 dilution of Anti-Goat IgG(Fcγ Fragment specific), AlpSdAbs® VHH(Biotin) was used as the primary antibody. An HRP conjugated streptavidin as the secondary antibody.



ELISA of specificity for different species of IgG. The plate was coated with 2 μg/ml of different IgG. 1:1000 dilution of Anti-Goat IgG(Fcγ Fragment specific), AlpSdAbs® VHH(Biotin) was used as the primary antibody. An HRP conjugated streptavidin as the secondary antibody.