

Anti-Goat IgG(Fc γ Fragment specific), AlpSdAbs[®] VHH(HRP)

Summary

| | |
|---------------------------|---|
| Code | 054-101-005 |
| Immunogen | Recombinant Fc region of goat IgG |
| Host | Alpaca pacous |
| Isotype | VHH domain of alpaca IgG2b/2c |
| Conjugate | HRP |
| 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 dH ₂ O or 100uL dH ₂ O with 50% Glycerol (Final concentration:1mg/mL) |
| Storage after Rehydration | -20 °C(Avoid freeze/thaw cycles), Stable for 12 months at -20°C, Protect from light |

Description

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

Background

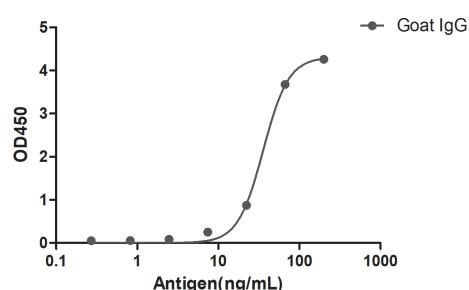
Goat antibodies are commonly used in biotechnology. They are used to prepare diagnostic reagents of immunochemical techniques. Goat IgG molecule possesses both the Fc region and the Fab region, which possessing the epitope-recognition site. The IgG contains two heavy and light chains. The heavy chain 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

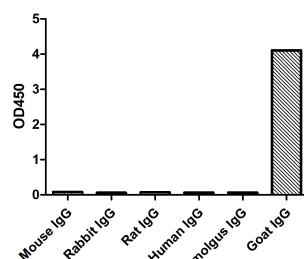
Suggested Working Concentration

| | | |
|---|--|----------------|
| High lot-to-lot consistency | ELISA | 1:5000-1:20000 |
| Increased sensitivity and higher affinity | WB | 1:5000-1:20000 |
| Animal-free production | 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 titer 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(HRP) was used as the detection antibody.



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

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