



# Anti-Goat IgG(Fc $\gamma$ Fragment specific), AlpHcAbs<sup>®</sup> Rabbit antibody

## Summary

Code	054-201-001
Immunogen	Recombinant Fc region of goat IgG
Host	Alpaca pacous
Isotype	VHH domain of alpaca IgG2b/2c fused to rabbit IgG Fc
Conjugate	Unconjugated
Specificity	Fc region of goat IgG
Cross-Reactivity	No cross-reactivity with mouse, rabbit, human, cynomolgus, rat IgG
Purity	Recombinant Expression and Affinity purified
Concentration	1mg/ml
Formation	Liquid, 10mM PBS (pH 7.5), 0.05% sucrose, 0.1% trehalose, 0.01% proclin300,50% Glycerol
Storage	Store at -20 °C(Avoid freeze / thaw cycles), Stable for 12 months at -20°C

## Description

Anti-Goat IgG(Fc $\gamma$  Fragment specific), AlpHcAbs<sup>®</sup> Rabbit antibody is designed for detecting Fc region of goat IgG specifically. Anti-Goat IgG(Fc $\gamma$  Fragment specific), AlpHcAbs<sup>®</sup> Rabbit antibody is monovalent, recombinant single domain antibody fused to rabbit IgG Fc. Based on immunoelectrophoresis and/or ELISA, Anti-Goat IgG(Fc $\gamma$  Fragment specific), AlpHcAbs<sup>®</sup> Rabbit antibody reacts with the Fc region of goat IgG selectively, no reactivity with mouse, human, cynomolgus, rat, rabbit 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

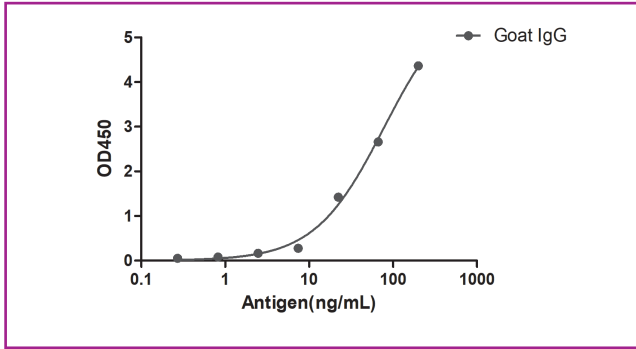
High lot-to-lot consistency  
Increased sensitivity and higher affinity  
Animal-free production

## Suggested Working Concentration

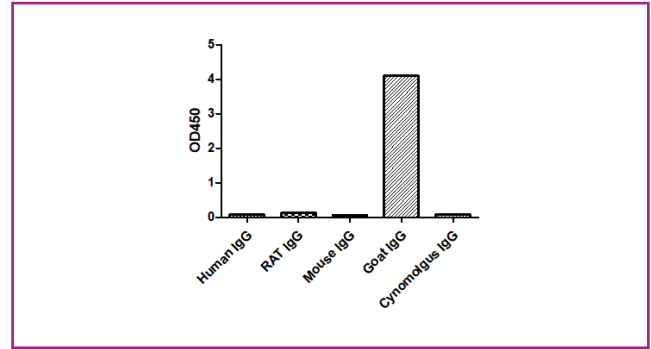
ELISA	1:5000-1:20000
WB	1:5000-1:20000

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.

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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), AlpHcAbs® Rabbit antibody was used as the primary antibody. An HRP conjugated anti-Rabbit IgG as the secondary 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), AlpHcAbs® Rabbit antibody was used as the primary antibody. An HRP conjugated anti-Rabbit IgG as the secondary antibody.

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