



Anti-Rat IgG(Fcy Fragment specific), AlpSdAbs® VHH(Biotin)

Summary

Code 071-102-004 Immunogen Rat IgG

Host Alpaca pacous

lsotype VHH domain of alpaca IgG2b/2c

Conjugate Biotin-SP (long spacer)

Specificity Rat IgG(Fcy Fragment specific)

Cross-Reactivity Does not bind to mouse IgG, rabbit IgG, goat IgG, human 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

Storage Store at -20 °C(Avoid freeze / thaw cycles)

Description

Anti-Rat IgG(Fcγ Fragment specific), AlpSdAbs® VHH(Biotin) is designed for detecting rat IgG Fc fragment specifically. Anti-Rat IgG(Fcγ Fragment specific), AlpSdAbs® VHH(Biotin) is based on recombinant single domain antibody to rat IgG Fc fragment coupled to Biotin. Based on immunoelectrophoresis and/or ELISA, Anti-Rat IgG(Fcγ Fragment specific), AlpSdAbs® VHH(Biotin) reacts with rat IgG(IgG1, IgG2a, IgG2b, IgG2c) Fc fragment selectively, no reactivity with mouse IgG, rabbit IgG, goat IgG, human IgG.

Background

There are five antibody isotypes (IgA, IgD, IgE, IgG, and IgM) from rat. Each isotype has a different heavy chain. Rat IgG consists of four subclasses-IgG1, IgG2a, IgG2b, IgG2c. The whole 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, and 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 kD.

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

IP 1-2ug/sample

BLI (biolayer interferometry)

SPR (surface plasmon resonance)

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

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