



Anti-Mouse IgG2b(Fcy Fragment specific), AlpSdAbs® VHH (Biotin)

Summary

Code 001-104-004

Immunogen Recombinant Fc region of mouse IgG2b

Host Alpaca pacous

lsotype VHH domain of alpaca IgG2b/2c

Conjugate Biotin-SP (long spacer)

Specificity Mouse IgG2b(Fcy fragment specific)

Cross-Reactivity No cross-reactivity with mouse IgG1/2a/3, mouse IgM, rabbit, human, cynomolgus, rat, goat 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), Stable for 12 months at -20 °C

Description

Anti-Mouse IgG2b(Fc γ Fragment specific), AlpSdAbs® VHH (Biotin) is designed for detecting mouse IgG2b Fc γ fragment specifically. Anti-Mouse IgG2b(Fc γ Fragment specific), AlpSdAbs® VHH (Biotin) is based on monoclonal, recombinant single domain antibody to mouse IgG2b Fc coupled to Biotin. Based on immunoelectrophoresis and/or ELISA, Anti-Mouse IgG2b(Fc γ Fragment specific), AlpSdAbs® VHH (Biotin) reacts with the Fc fragment of mouse IgG2b selectively, no reactivity with other mouse IgG subclasses, mouse IgM, or the Fab portion of mouse immunoglobulins.

Background

Most monoclonal antibodies are generated in mouse. There are five antibody isotypes (IgA, IgD, IgE, IgG, and IgM) from mouse. Each isotype has a different heavy chain. Mouse IgG constitutes 75% of serum immunoglobulins, and IgG is the predominant form of first antibody produced from mouse. Mouse IgG consists of five subclasses-IgG1, IgG2a, IgG2b, IgG2c(inbred mouse strains with the Igh1-b allele have IgG2c isotype instead of IgG2a), IgG3. They are highly homologous and differ mainly in the hinge region. 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

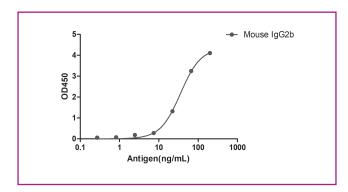
ELISA 1:10000-1:50000 WB 1:10000-1:50000

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.

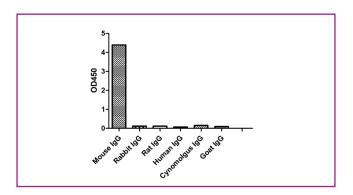
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Website: alpvhhs.com E-mail: service@nb-biolab.com Phone: 400-166-9953





A titer ELISA of mouse IgG2b. The plate was coated with different amounts of mouse IgG2b. 1:10000 dilution of Anti-Mouse IgG2b(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 2ug/ml of different IgG. 1:1000 dilution of Anti-Mouse IgG2b(Fc γ Fragment specific), AlpSdAbs® VHH(Biotin) was used as the primary antibody. An HRP conjugated streptavidin as the secondary antibody.

Website: alpvhhs.com E-mail: service@nb-biolab.com Phone: 400-166-9953