

Anti-Mouse IgG for WB, AlpSdAbs[®] VHH(HRP)

Summary

Code	001-200-005
Immunogen	Recombinant mouse IgG
Host	Alpaca pacous
Isotype	VHH domain of alpaca IgG2b/2c
Conjugate	HRP
Specificity	Mouse IgG(H+L)
Cross-Reactivity	No cross-reactivity with 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, 50% glycerol
Storage	Store at -20 °C(Avoid freeze / thaw cycles), Protect from light.

Description

Anti-Mouse IgG for WB, AlpSdAbs[®] VHH(HRP) is designed for detecting mouse IgG(H+L) in western blot experiment specifically. Anti-Mouse IgG for WB, AlpSdAbs[®] VHH(HRP) is based on recombinant single domain antibodies to mouse IgG(H+L) coupled to HRP. Based on immunoelectrophoresis and/or ELISA, Anti-Mouse IgG for WB, AlpSdAbs[®] VHH(HRP) detects the mouse IgG1, mouse IgG2a, mouse IgG2b and mouse IgG3, no reactivity with rabbit, human, cynomolgus, rat, goat IgG.

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

Benefits

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

Application notes

WB 1:10000-1:50000
WB 1ul Nano-secondary antibody for 1ul First antibody

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