



Anti-Human IgG(CH2 Fragment specific), AlpSdAbs® VHH(HRP)

Summary

Code 023-112-005

Immunogen Human IgG

Host Alpaca pacous

lsotype VHH domain of alpaca IgG2b/2c

Conjugate HRP

Specificity Human IgG CH2 fragment

Cross-Reactivity Cross-react with cynomolgus IgG, No cross-reactivity with rabbit, mouse, 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)

Description

Anti-Human IgG(CH2 Fragment specific), AlpSdAbs® VHH(HRP) is designed for detecting human IgG CH2 fragment specifically. Anti-Human IgG(CH2 Fragment specific), AlpSdAbs® VHH(HRP) is based on monovalent, recombinant single domain antibody to human IgG CH2 fragment coupled to HRP. Based on immunoelectrophoresis and/or ELISA, Anti-Human IgG(CH2 Fragment specific), AlpSdAbs® VHH(HRP) reacts with human IgG CH2 fragment selectively, no reactivity with rabbit, mouse, rat, goat IgG.

Background

In mammals, antibodies are classified into five main classes or isotypes – IgA, IgD, IgE, IgG and IgM. They are classed according to the heavy chain they contain – alpha, delta, epsilon, gamma or mu respectively. IgG is the most abundant antibody in normal human serum, accounting for 70-85% of the total immunoglobulin pool. Human IgG consists of four human subclasses (IgG1, IgG2, IgG3 and IgG4), and each contains a different heavy chain. 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(kappa or lambda). The heavy chain is about 50 KD and the light chain is about 25 KD. The heavy chain chains consist of a variable domain, VH, and three constant domains CH1, CH2, and CH3. 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

Application notes

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.

This product is for research use only and is not approved for use in humans or in clinical

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