



Anti-Human IgD, AlpSdAbs® VHH(Biotin)

Summary

Code 023-108-004
Immunogen Human IgD
Host Alpaca pacous

lsotype VHH domain of alpaca IgG2b/2c

Conjugate Biotin-SP (long spacer)

Specificity Human IgD

Cross-Reactivity Does not bind to human IgG, IgA, IgM, IgE
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-Human IgD, AlpSdAbs® VHH(Biotin) is designed for detecting human IgD specifically. Anti-Human IgD, AlpSdAbs® VHH(Biotin) is based on monovalent, recombinant single domain antibody to human IgD coupled to Biotin. Based on immunoelectrophoresis and/or ELISA, Anti-Human IgD, AlpSdAbs® VHH(Biotin) reacts with human IgD chain selectively, no reactivity with human IgG, IgA, IgM, IgE.

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. Immunoglobulin D (IgD) is an antibody isotype typically expressed in the plasma membranes of naïve B cells, usually co-expressed with IgM. IgD is also found secreted in small amounts in serum. Secreted IgD is produced as a monomeric antibody with two heavy chains of the delta class, and two Ig light chains.

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
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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