

Anti-Biotin, AlpSdAbs® VHH

Summary

Code#	078-101-001
Immunogen	Biotin conjugated KLH
Host	Alpaca pacous
Isotype	VHH domain of alpaca IgG2b/2c
Conjugate	Unconjugated(6*his tag and one cys were added at the C terminal of the VHH)
Specificity	Biotin and biotinylated antibody, protein, peptides, oligonucleotides or solid matrices.
Cross-Reactivity	No cross-reactivity with other antigen.
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-Biotin, AlpSdAbs® VHH is designed for detecting biotin or biotinylated protein specifically. Anti-Biotin, AlpSdAbs® VHH is monovalent, recombinant single domain antibody derived from the variable regions of heavy chain of Alpaca pacous. Based on immunoelectrophoresis and/or ELISA, Anti-Biotin, AlpSdAbs® VHH reacts with biotin or biotinylated protein selectively, no reactivity with other antigen.

Background

Biotin is widely conjugated to proteins and antibodies for biochemical assays. Avidin (streptavidin)-biotin system is commonly used for many immunoassays such as ELISA, Flow Cytometry, Immunofluorescence, In Situ Hybridization, and Immunohistochemistry. Anti-Biotin antibody is a better alternative to avidins to minimize background and maximize signal intensity.

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
ICC/IF: 1:100-1:1000
IP: 1-2ug/sample

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