

Anti-Biotin, AlpSdAbs® VHH(HRP)

Summary

Code#	078-101-005
Immunogen	Biotin conjugated KLH
Host	Alpaca pacous
Isotype	VHH domain of alpaca IgG2b/2c
Conjugate	HRP
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, 50% Glycerol
Storage	Store at -20 °C(Avoid freeze / thaw cycles) , protect from light

Description

Anti-Biotin, AlpSdAbs® VHH(HRP) is designed for detecting biotin or biotinylated protein specifically. Anti-Biotin, AlpSdAbs® VHH(HRP) is based on monovalent, recombinant single domain antibody to biotin coupled to HRP. Based on immunoelectrophoresis and/or ELISA, Anti-Biotin, AlpSdAbs® VHH(HRP) 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