

Anti-His tag, AlpSdAbs[®] VHH(Biotin)

Summary

Code	004-101-004
Immunogen	6*His tag fusion protein
Host	Alpaca pacous
Isotype	VHH domain of alpaca IgG2b/2c
Conjugate	Biotin
Specificity	His tag sequence(HHHHHH)
Cross-Reactivity	Highly selective for His tag sequence
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-His tag, AlpSdAbs[®] VHH(Biotin) is designed for detecting His tag fusion proteins specifically. Anti-His tag, AlpSdAbs[®] VHH(Biotin) is based on monoclonal, recombinant, single domain antibody to His tag coupled to Biotin. Based on immunoelectrophoresis and/or ELISA, Anti-His tag, AlpSdAbs[®] VHH(Biotin) detects the His tag selectively, no reactivity with other proteins.

Background

The His tag is widely used for detecting, manipulating or purifying proteins. This peptide can be expressed and detected with the protein of interest as an amino-terminal or carboxy-terminal fusion. Because of its small size, His tag is unlikely to affect the tagged protein's biochemical properties. His tag is useful for the labeling and detection of proteins using immunoblotting, immunoprecipitation, and immunostaining techniques.

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 1:5,000-1:20000

WB 1:5,000-1:20000

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