

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

Size:100ug

Buffer:10mM PBS(pH 7.5),0.05%sucrose,0.1%trehalose,0.01%proclin300

Formation: Freeze-dried Powder, Store at 2-8°C

Rehydration: Rehydrated by 100uL dH2O before using(Final concentration:1mg/mL)

Storage after Rehydration: -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

Application notes

WB 1:5,000-1:20000
ELISA 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.

Please note: All products are FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC PROCEDURES.