



# Anti-HA tag, AlpSdAbs<sup>®</sup> VHH

## Summary

Code	003-101-001
Immunogen	HA tag fused 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	HA tag(YPYDVPDYA)
Cross-Reactivity	Highly selective for HA 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-HA tag, AlpSdAbs<sup>®</sup> VHH is designed for detecting HA tag fusion proteins specifically. Anti-HA tag, AlpSdAbs<sup>®</sup> VHH is based on monoclonal, recombinant, single domain antibody derived from the variable regions of heavy chain of Alpaca pacous. Based on immunoelectrophoresis and/or ELISA, Anti-HA tag, AlpSdAbs<sup>®</sup> VHH detects the HA tag selectively, no reactivity with other proteins.

## Background

The HA 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, HA tag is unlikely to affect the tagged protein's biochemical properties. HA 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

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