

# Anti-Halo tag, AlpSdAbs<sup>®</sup> VHH(Biotin)

## Summary

Code	012-101-004
Immunogen	Halo tag fused KLH
Host	Alpaca pacous
Isotype	VHH domain of alpaca IgG2b/2c
Conjugate	Biotin
Specificity	Halo tag
Cross-Reactivity	Highly selective for Halo 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-Halo tag, AlpSdAbs<sup>®</sup> VHH(Biotin) is designed for detecting Halo tag fusion proteins. Anti-Halo tag, AlpSdAbs<sup>®</sup> VHH(Biotin) is based on monoclonal, recombinant, single domain antibody to Halo tag coupled to Biotin. Based on immunoelectrophoresis and/or ELISA, Anti-Halo tag, AlpSdAbs<sup>®</sup> VHH(Biotin) detects the Halo tag selectively, no reactivity with other proteins.

## Background

The protein tag(Halo tag) is a modified haloalkane dehalogenase designed to covalently bind to synthetic ligands (Halo tag ligands). The synthetic ligands comprise a chloroalkane linker attached to a variety of useful molecules, such as fluorescent dyes, affinity handles, or solid surfaces. 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