

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

## Summary

Code	019-101-004
Immunogen	GFP
Host	Alpaca pacous
Isotype	VHH domain of alpaca IgG2b/2c
Conjugate	Biotin
Specificity	GFP
Cross-Reactivity	Recognizes GFP, mEGFP, superfolder GFP and most common CFP and YFP variants. Does not cross-react with mCherry, mRFP, dsRed, mTagBFP, mTagRFP or their most common derivatives
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-GFP, AlpSdAbs<sup>®</sup> VHH(Biotin) is designed for detecting GFP fusion proteins. Anti-GFP, AlpSdAbs<sup>®</sup> VHH(Biotin) is based on monoclonal, recombinant, single domain antibody to GFP coupled to Biotin. Based on immunoelectrophoresis and/or ELISA, Anti-GFP, AlpSdAbs<sup>®</sup> VHH(Biotin) detects the GFP selectively, no reactivity with other proteins.

## Background

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.

This product is for research use only and is not approved for use in humans or in clinical