

Anti-VHH, AlpHcAbs[®] Rabbit antibody(Biotin)

Summary

Code	077-201-004
Immunogen	Recombinant VHH antibody from Alpaca
Host	Rabbit
Isotype	Rabbit IgG
Conjugate	Biotin
Specificity	Camelid VHH antibody(Llama, Alpaca and Camel)
Cross-Reactivity	No cross-reactivity with mouse, rat, rabbit, goat or human IgG
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, 50% Glycerol
Storage	Store at -20 °C(Avoid freeze / thaw cycles), Stable for 12 months at -20°C

Description

Anti-VHH, AlpHcAbs[®] Rabbit antibody(Biotin) is designed for detecting camelid VHH antibody(Llama, Alpaca and Camel) specifically. Based on immunoelectrophoresis and/or ELISA, Anti-VHH, AlpHcAbs[®] Rabbit antibody(Biotin) reacts with camelid VHH antibody selectively, no cross-reactivity with mouse, rat, rabbit, goat or human IgG.

Background

The biological family Camelidae comprises camels (one-humped *Camelus dromedarius* and two-humped *Camelus bactrianus*), llama (*Lama glama* and *Lama guanicoe*), and vicugna (*Vicugna vicugna* and *Vicugna pacos*). Camelidae contain two kinds of IgG in serum: conventional antibodies (IgG1) containing two light chains and two heavy chains (composed of the VH, CH1, hinge, and CH2 and CH3 domains) and two types of homodimeric heavy-chain antibodies (HCAs), IgG2 and IgG3, which comprise only H chains; each H chain contains a VHH, hinge, and CH2 and CH3 domains. The smallest intact functional antigen-binding fragment of HCAs is the single-domain VHH, also known as a nanobody(Nb). 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	1:4000-1:10000
WB	1:4000-1:10000
Flow Cyt	1:100-1:1000

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