



Anti-VHH, AlpHcAbs[®] Rabbit antibody (iFluor594)

Summary

Code 077-201-008

Immunogen Recombinant VHH antibody from Alpaca

Host Rabbit Isotype Rabbit IgG

Conjugate iFluor594(Ex: 592nm, Em: 614nm), 3 moles iFluor594 per mole IgG

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), Protect from light

Description

Anti-VHH, AlpHcAbs® Rabbit antibody(iFluor594) is designed for detecting camelid VHH antibody(Llama, Alpaca and Camel) specifically. Based on immunoelectrophoresis and/or ELISA, Anti-VHH, AlpHcAbs® Rabbit antibody(iFluor594) 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), Ilama (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 (HCAbs), 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 HCAbs 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

Flow Cyt 1:200-1:1000 ICC/IF 1:200-1:1000 ELISA 1:4000 -1:10000 WB 1:4000 -1:10000

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

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