

Anti-Human IgG(H+L), AlpSdAbs® VHH(iFluor647 ×8)

Summary

Code	023-106-009
Immunogen	Recombinant human IgG
Host	Alpaca pacous
Isotype	VHH domain of alpaca IgG2b/2c
Conjugate	iFluor647(Ex:651nm, Em:667nm)
Specificity	Human IgG(H+L)
Cross-Reactivity	Recognizes human IgG(H+L) specifically, and reacts with cynomolgus IgG. No Cross-reactivity to rabbit , mouse, rat, goat 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-Human IgG(H+L), AlpSdAbs® VHH(iFluor647 ×8) is designed for detecting human IgG(H+L) specifically. Anti-Human IgG(H+L), AlpSdAbs® VHH(iFluor647 ×8) is based on recombinant single domain antibodies to human IgG(H+L) coupled to iFluor647. Based on immunoelectrophoresis and/or ELISA, Anti-Human IgG(H+L), AlpSdAbs® VHH(iFluor647 ×8) reacts with the human IgG(H+L) specifically.

Background

In mammals, antibodies are classified into five main classes or isotypes – IgA, IgD, IgE, IgG and IgM. They are classed according to the heavy chain they contain – alpha, delta, epsilon, gamma or mu respectively. IgG is the most abundant antibody in normal human serum, accounting for 70-85% of the total immunoglobulin pool. Human IgG consists of four human subclasses (IgG1, IgG2, IgG3 and IgG4), and each contains a different heavy chain. The whole IgG molecule possesses both the Fc region and the Fab region, which possessing the epitope-recognition site. The IgG contains two heavy and light chains(kappa or lambda). The heavy chain is about 50 KD and the light chain is about 25 KD. The common IgG is monomeric with a molecular weight of approximately 150 kD.

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

Flow Cyt	1:200-1:2000
ICC/IF	1:200-1:2000
ELISA	1:5000-1:20000
WB	1:5000-1:20000
Super-resolution microscopy	

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