

Anti-Human IgG(H+L), AlpSdAbs[®] VHH(iFluor488)

Summary

Code	023-106-007	
Immunogen	Recombinant Fc region of human IgG	
Host	Alpaca pacous	
Isotype	VHH domain of alpaca IgG2b/2c	
Conjugate	iFluor488(Ex: 495nm, Em: 519nm)	
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(iFluor488) is designed for detecting human IgG(H+L) specifically. Anti-Human IgG(H+L), AlpSdAbs[®] VHH(iFluor488) is based on recombinant single domain antibodies to human IgG(H+L) coupled to iFluor488. Based on immunoelectrophoresis and/or ELISA, Anti-Human IgG(H+L), AlpSdAbs[®] VHH(iFluor488) 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	Applica	Application notes	
High lot-to-lot consistency	Flow Cyt	1:200-1:2000	
Increased sensitivity and higher affinity	ICC/IF	1:200-1:2000	
Animal-free production	ELISA	1:5000-1:20000	
	WB	1:5000-1:20000	
	Super-reso	lution microscopy	
		ors 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