Anti-Human IgD, AlpHcAbs® Goat antibody

Summary

Code	023-408-001
Immunogen	Human IgD
Host	Alpaca pacous
Isotype	VHH domain of alpaca IgG2b/2c fused to goat IgG Fc(mutation)
Conjugate	Unconjugated
Specificity	Human IgD
Cross-Reactivity	Does not bind to human IgG, IgA, IgM, IgE
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)

Description

Anti-Human IgD, AlpHcAbs® Goat antibody is designed for detecting human IgD specifically. Anti-Human IgD, AlpHcAbs® Goat antibody is monovalent, recombinant single domain antibody fused to goat IgG Fc(mutation). Based on immunoelectrophoresis and/or ELISA, Anti-Human IgD, AlpHcAbs® Goat antibody reacts with human IgD selectively, no reactivity with human IgG, IgA, IgM, IgE.

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. Immunoglobulin D (IgD) is an antibody isotype typically expressed in the plasma membranes of naïve B cells, usually co-expressed with IgM. IgD is also found secreted in small amounts in serum. Secreted IgD is produced as a monomeric antibody with two heavy chains of the delta class, and two Ig light chains.
Using antibody with Fc(mutation), the background from Fc receptors will be eliminated.

Benefits

High lot-to-lot consistency
Increased sensitivity and higher affinity
Animal-free production

Suggested Working Concentration

ELISA	1:10000-1:5000
ICC/IF	1:200-1:1000
IP	1-2ug/sample
Flow Cyt	1μg for 10^6 cells

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.