Anti-Human IgG(Fcγ Fragment specific), AlpHcAbs® Goat antibody(Biotin)

Summary

Code	023-401-004
Immunogen	Recombinant Fc region of human IgG
Host	Alpaca pacous
Isotype	VHH domain of alpaca IgG2b/2c fused to goat IgG Fc(mutation)
Conjugate	Biotin-SP (long spacer)
Specificity	Human IgG(Fcγ fragment specific)
Cross-Reactivity	Recognizes human IgG Fcγ fragment 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
Storage	Store at –20 °C(Avoid freeze / thaw cycles)

Description

Anti-Human IgG(Fcγ Fragment specific), AlpHcAbs® Goat antibody(Biotin) is designed for detecting human IgG Fcγ fragment specifically. Anti-Human IgG(Fcγ Fragment specific), AlpHcAbs® Goat antibody(Biotin) is based on monoclonal, recombinant, goat IgG Fc fused single domain antibody to human IgG(Fcγ Fragment specific) coupled to Biotin. Based on immunoelectrophoresis and/or ELISA, Anti-Human IgG(Fcγ Fragment specific), AlpHcAbs® Goat antibody(Biotin) reacts with human IgG Fcγ fragment selectively, no reactivity with mouse, rabbit, rat, goat IgG.

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.
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

Application notes

WB	1:10000-1:50000
ELISA	1:10000-1:50000
IP	1-2ug/sample

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.