

Anti-Human IgG-Fc PK, AlpHcAbs[®] Goat antibody(Biotin)

Summary

Code	023-411-004
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
Specificity	Human IgG(Fcγ fragment specific)
Cross-Reactivity	No Cross-reactivity to rabbit, mouse, rat, goat, rhesus, and cynomolgus monkey 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)

Description

Anti-Human IgG-Fc PK, AlpHcAbs[®] Goat antibody(Biotin) is designed for detecting human IgG specifically. Anti-Human IgG-Fc PK, AlpHcAbs[®] Goat antibody(Biotin) is based on monoclonal, recombinant, goat IgG Fc fused single domain antibody to human IgG coupled to Biotin. Based on immunoelectrophoresis and/or ELISA, Anti-Human IgG-Fc PK, AlpHcAbs[®] Goat antibody(Biotin) binds to the Fc part of all four human IgG subclasses without cross-binding to rabbit, mouse, rat, goat, rhesus, and cynomolgus monkey IgG. Anti-Human IgG-Fc PK, AlpHcAbs[®] Goat antibody(Biotin) is a useful tool to detect, quantitate, and characterize all human IgG antibodies(subclasses 1 to 4), recombinant human IgG antibodies, human IgG-derived Fc-fusion proteins in, for instance, non-human plasma and/or serum samples like mouse, rat, rhesus, and cynomolgus monkey, thereby making it extremely suitable for setting up pharmacokinetics (PK) assays.

Background

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.

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	1:5000-1:20000
ELISA	1:5000-1:20000
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.

This product is for research use only and is not approved for use in humans or in clinical