



# Anti-Rat IgG(Fcγ Fragment specific), AlpHcAbs<sup>®</sup> Goat antibody(HRP)

## Summary

Code 071-402-005 Immunogen Rat IgG

Host Alpaca pacous

lsotype VHH domain of alpaca IgG2b/2c fused to goat IgG Fc(mutation)

Conjugate HRP

Specificity Rat IgG(Fcy Fragment specific)

Cross-Reactivity Does not bind to mouse IgG, rabbit IgG, goat IgG, human 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-Rat IgG(Fc $\gamma$  Fragment specific), AlpHcAbs® Goat antibody(HRP) is designed for detecting rat IgG Fc fragment specifically. Anti-Rat IgG(Fc $\gamma$  Fragment specific), AlpHcAbs® Goat antibody(HRP) is based on recombinant, goat IgG Fc fused single domain antibody to rat IgG Fc fragment coupled to HRP. Based on immunoelectrophoresis and/or ELISA, Anti-Rat IgG(Fc $\gamma$  Fragment specific), AlpHcAbs® Goat antibody(HRP) reacts with rat IgG Fc fragment selectively.

### Background

There are five antibody isotypes (IgA, IgD, IgE, IgG, and IgM) from rat. Each isotype has a different heavy chain. Rat IgG consists of four subclasses-IgG1, IgG2a, IgG2b, IgG2c. 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, and 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

### Suggested Working Concentration

ELISA 1:5000-1:20000 WB 1:5000-1:20000

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

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