

# Anti-Human IgE, AlpHcAbs<sup>®</sup> Goat antibody(Biotin)

## Summary

Code	023-407-004
Immunogen	Human IgE
Host	Alpaca pacous
Isotype	VHH domain of alpaca IgG2b/2c fused to goat IgG Fc(mutation)
Conjugate	Biotin
Specificity	Human IgE
Cross-Reactivity	Does not bind to human IgG, IgA, IgM, IgD
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 IgE, AlpHcAbs<sup>®</sup> Goat antibody(Biotin) is designed for detecting human IgE specifically. Anti-Human IgE, AlpHcAbs<sup>®</sup> Goat antibody(Biotin) is based on monoclonal, recombinant, goat IgG Fc fused single domain antibody to human IgE coupled to Biotin. Based on immunoelectrophoresis and/or ELISA, Anti-Human IgE, AlpHcAbs<sup>®</sup> Goat antibody(Biotin) reacts with human IgE selectively.

## 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. IgE is the class of antibodies produced in the lungs, skin, and mucous membranes. It may protect against parasite invasion, but it is a major factor in allergic reactions. The antigen-specific IgE interacts with mast cells and eosinophils, triggers the release of histamine, leukotrienes and other substances that lead to the itching, sneezing and congestion of allergies - and the life threatening respiratory distress of asthma and anaphylactic shock.

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
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