# Anti-Rabbit IgG(Fcγ Fragment specific), AlpHcAbs® Goat antibody(iFluor488)

## Summary

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| Code | 025-401-007 |
| Immunogen | Recombinant Rabbit IgG |
| Host | Alpaca pacous |
| Isotype | VHH domain of alpaca IgG2b/2c fused to goat IgG Fc |
| Conjugate | iFluor488 (Ex=495nm, Em=519nm), 2 moles iFluor488 per mole IgG |
| Specificity | Fc region of Rabbit IgG |
| Cross-Reactivity | No cross-reactivity with mouse, human, cynomolgus, rat, goat IgG |
| Purity | Recombinant Expression and Affinity purified |
| Concentration | 1mg/ml |
| Formation | 10mM PBS(pH 7.5), 0.05% sucrose, 0.1% trehalose, 0.01% proclin300, 50% Glycerol |
| Storage | Store at –20 °C, protect from light |

## Description

Anti-Rabbit IgG(Fcγ Fragment specific), AlpHcAbs® Goat antibody(iFluor488) is designed for detecting Fc region of rabbit IgG specifically. Anti-Rabbit IgG(Fcγ Fragment specific), AlpHcAbs® Goat antibody(iFluor488) is based on monoclonal, recombinant, goat IgG Fc fused single domain antibody to Fc region of rabbit IgG coupled to iFluor488, and Anti-Rabbit IgG(Fcγ Fragment specific), AlpHcAbs® Goat antibody(iFluor488) reacts with the Fc fragment of rabbit IgG selectively, no reactivity with mouse, human, cynomolgus, rat, goat IgG.

## Background

Rabbit research antibodies are widely used in life science research. So far, four isotypes have been identified (IgA, IgE, IgG, and IgM) in rabbits. Each isotype has a different heavy chain. Rabbit has only one IgG subclass. 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. 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

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| Flow Cyt | 1:200-1:2000 |
| ICC/IF | 1:200-1:2000 |
| ELISA | 1:10000 -1:50000 |
| WB | 1:10000 -1:50000 |

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.