

# Anti-CD70, AlpHcAbs<sup>®</sup> Human antibody

## Summary

<b>Code</b>	300-512-001
<b>Immunogen</b>	Recombinant human CD70
<b>Host</b>	Alpaca pacous
<b>Isotype</b>	VHH domain of alpaca IgG2b/2c fused to Human IgG1 Fc(mutation)
<b>Conjugate</b>	Unconjugated
<b>Specificity</b>	Human CD70
<b>Cross-Reactivity</b>	Cross-reactivity with cynomolgus CD70
<b>Purity</b>	Recombinant Expression and Affinity purified
<b>Concentration</b>	1mg/ml
<b>Formation</b>	Liquid, 10mM PBS (pH 7.5), 0.05% sucrose, 0.1% trehalose, 0.01% proclin300, 50% Glycerol
<b>Storage</b>	Store at -20 °C, (Avoid freeze / thaw cycles), Stable for 12 months at -20°C

## Description

Anti-CD70, AlpHcAbs<sup>®</sup> Human antibody is designed for detecting human CD70 specifically. Anti-CD70, AlpHcAbs<sup>®</sup> Human antibody is recombinant VHH domain of alpaca IgG2b/2c fused to Human IgG1 Fc. Based on ELISA, Anti-CD70, AlpHcAbs<sup>®</sup> Human antibody reacts with human CD70, and has reactivity with cynomolgus CD70.

## Background

CD70 is encoded by a gene, which is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This cytokine is a ligand for TNFRSF27/CD27. It is a surface antigen on activated, but not on resting, T and B lymphocytes. It induces proliferation of costimulated T cells, enhances the generation of cytolytic T cells, and contributes to T cell activation. This cytokine is also reported to play a role in regulating B-cell activation, cytotoxic function of natural killer cells, and immunoglobulin synthesis.

Using antibody with Fc(mutation), the background from Fc receptors will be eliminated.

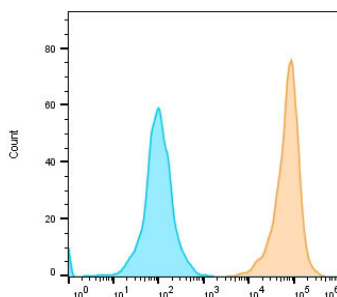
## Benefits

- High lot-to-lot consistency
- Increased sensitivity and higher affinity
- Animal-free production

## Suggested Working Concentration

<b>ELISA</b>	1:4,000-1:10000
<b>Flow Cytometry</b>	1:200-1:1000

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.



Flow cytometric analysis of CD70-overexpressed HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) labeling CD70 with 300-501-001 at 1:10000 dilution(yellow) compared with Human IgG1-Isotype control(green). Anti-Human IgG(H+L),HcAbs<sup>®</sup> Goat antibody(FITC)(023-403-006), at 1/1000 dilution was used as the secondary antibody.

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