

Anti-IGF-1R, AlpHcAbs® Human antibody

Summary

Code	300-511-001
Immunogen	Recombinant human IGF-1R
Host	Alpaca pacous
Isotype	VHH domain of alpaca IgG2b/2c fused to Human IgG1 Fc(mutation)
Conjugate	Unconjugated
Specificity	Human IGF-1R
Cross-Reactivity	Cross-reactivity with cynomolgus IGF-1R
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), Stable for 12 months at -20°C

Description

Anti-IGF-1R, AlpHcAbs® Human antibody is designed for detecting human IGF-1R specifically. Anti-IGF-1R, AlpHcAbs® Human antibody is recombinant VHH domain of alpaca IgG2b/2c fused to Human IgG1 Fc. Based on ELISA, Anti-IGF-1R, AlpHcAbs® Human antibody reacts with human IGF-1R, and has reactivity with cynomolgus IGF-1R.

Background

IGF1R (Insulin-like Growth Factor1 Receptor) is a receptor tyrosine kinase that mediates actions of insulin-like growth factor 1 (IFG1). It binds IGF1 with high affinity and IGF2/insulin with lower affinity. Activated IGF1R is involved in cell growth and survival control. IGF1R is crucial for tumor transformation and survival of malignant cells. Ligand binding activates the receptor kinase and leads to receptor autophosphorylation and tyrosines phosphorylation of multiple substrates that function as signaling adapter proteins.

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

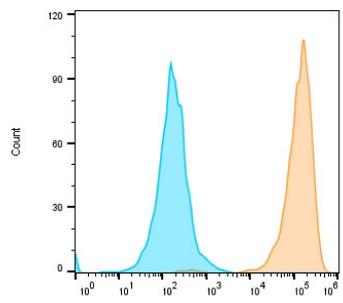
Benefits

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

Suggested Working Concentration

- ELISA** 1:4,000-1:10000
- Flow Cytometry** 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 IGF-1R-overexpressed HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) labeling IGF-1R with 300-511-001 at 1:10000 dilution(yellow) compared with Human IgG1-Isotype control(green). Anti-Human IgG(H+L),HcAbs® 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