

# Anti-FGFR2(IIIb), AlpHcAbs<sup>®</sup> Human antibody

## Summary

<b>Code</b>	300-505-001
<b>Immunogen</b>	Recombinant human FGFR2(IIIb)
<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 FGFR2(IIIb)
<b>Cross-Reactivity</b>	Cross-reactivity with cynomolgus FGFR2(IIIb)
<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-FGFR2(IIIb), AlpHcAbs<sup>®</sup> Human antibody is designed for detecting human FGFR2(IIIb) specifically. Anti-FGFR2(IIIb), AlpHcAbs<sup>®</sup> Human antibody is recombinant VHH domain of alpaca IgG2b/2c fused to Human IgG1 Fc. Based on ELISA, Anti-FGFR2(IIIb), AlpHcAbs<sup>®</sup> Human antibody reacts with human FGFR2(IIIb), and has reactivity with cynomolgus FGFR2(IIIb).

## Background

FGFR2 is a member of the fibroblast growth factor receptor family. It is a tyrosine-protein kinase that acts as a cell-surface receptor for fibroblast growth factors and plays a central role in the regulation of cell proliferation, differentiation, migration, apoptosis, and embryonic development. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein consists of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. Mutations in this gene are associated with Crouzon syndrome, Pfeiffer syndrome, Craniosynostosis, Apert syndrome, Jackson-Weiss syndrome, Beare-Stevenson cutis gyrata syndrome, Saethre-Chotzen syndrome, and syndromic craniosynostosis. Multiple alternatively spliced transcript variants encoding different isoforms have been noted for this gene.

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

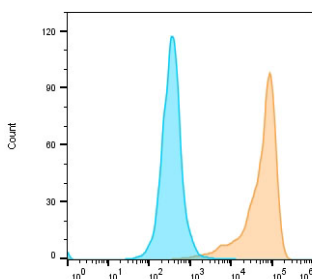
## Benefits

- 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 FGFR2(IIIb)-overexpressed HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) labeling FGFR2(IIIb) with 300-505-001 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