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Product Information

Recombinant Anti-Human IGF1R Antibody scFv Fragment

Cat. No.: **MOM-18078-S(P)**
This product is for research use only and is not intended for diagnostic use.

Product Overview

Recombinant Human Antibody scFv Fragment is against Human IGF1 Receptor, expressed in E. coli

Antigen Description

Receptor tyrosine kinase which mediates actions of insulin-like growth factor 1 (IGF1). Binds IGF1 with high affinity and IGF2 and insulin (INS) with a lower affinity. The activated IGF1R is involved in cell growth and survival control. IGF1R is crucial for tumor transformation and survival of malignant cell. Ligand binding activates the receptor kinase, leading to receptor autophosphorylation, and tyrosines phosphorylation of multiple substrates, that function as signaling adapter proteins including, the insulin-receptor substrates (IRS1/2), Shc and 14-3-3 proteins.

Specific Activity

Tested positive against native antigen.

Target

IGF1 Receptor

Source

Human

Species Reactivity

Human

Type

scFv Fragment from Human IgG1 - lambda

Expression Host

E. coli

Purity

Purity >95% by SDS-PAGE.

Applications

Suitable for use in ELISA, WB, Neut and most other immunological methods.

Storage

Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze/thaw cycles.

ANTIGEN GENE INFOMATION

Gene Name

IGF1R insulin-like growth factor 1 receptor [Homo sapiens]

Official Symbol

IGF1R

Synonyms

IGF1R; insulin-like growth factor 1 receptor; CD221; IGFIR; IGFR; JTK13; MGC18216; IGF-I receptor; soluble IGF1R variant 1; soluble IGF1R variant 2; insulin-like growth factor I receptor; MGC142170; MGC142172;

Gene ID

3480

mRNA Refseq

NM_000875

Protein Refseq

NP_000866

MIM

147370

UniProt ID

P08069

Chromosome Location

15q26.3

Pathway

Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Apoptosis, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; Focal Adhesion, organism-specific biosystem;

Function

ATP binding; identical protein binding; insulin binding; insulin receptor binding; insulin receptor substrate binding; insulin-like growth factor I binding; insulin-like growth factor binding; insulin-like growth factor-activated receptor activity; nucleotide binding; phosphatidylinositol 3-kinase binding; protein binding; protein tyrosine kinase activity; receptor activity;

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