

# Product Information

## Recombinant Anti-Human IGF1R Antibody Fab Fragment

Cat. No.: **MOM-18232-F(E)**

This product is for research use only and is not intended for diagnostic use.

### Product Overview

Recombinant Human Antibody Fab Fragment specifically binds to Human IGF1 Receptor, expressed in Chinese Hamster Ovary cells(CHO)

### 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

Fab Fragment based on Human IgG2 - kappa

### Expression Host

CHO

### Purity

>97%, by SDS-PAGE under reducing conditions and visualized by silver stain.

### Applications

Suitable for use in FC, IP, ELISA, Neut, FuncS, IF and most other immunological methods.

### Storage

At -20°C for one year.

## ANTIGEN GENE INFORMATION

### Gene Name

[IGF1R insulin-like growth factor 1 receptor \[ Homo sapiens \]](#)

**Official Symbol**

IGF1R

**Synonyms**

IGF1R; insulin-like growth factor 1 receptor; CD221; IGFIIR; 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;