

IGF1R

Reactivity: Human Mouse

Tested applications: WB IHC

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:50 - 1:100

Calculated MW: 155kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human IGF1R

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

b

Synonym:

IGF1R;CD221;IGFIR;IGFR;JTK13;MGC142170;MGC142172;MGC18216 ;

Catalog #: A0243

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 3480

Isotype: IgG

Swiss Prot: P08069

Purity: Affinity purification

For research use only.

Background:

IGF1R, also named as CD221, belongs to the protein kinase superfamily, Tyr protein kinase family and Insulin receptor subfamily. IGF1R binds insulin-like growth factor 1 (IGF1) with a high affinity and IGF2 with a lower affinity. It has a tyrosine-protein kinase activity, which is necessary for the activation of the IGF1-stimulated downstream signaling cascade. When present in a hybrid receptor with INSR, IGF1R binds IGF1. The hybrid receptors composed of IGF1R and INSR isoform Long are activated with a high affinity by IGF1, with low affinity by IGF2 and not significantly activated by insulin, and that hybrid receptors composed of IGF1R and INSR isoform Short are activated by IGF1, IGF2 and insulin. In contrast, the hybrid receptors composed of IGF1R and INSR isoform Long and hybrid receptors composed of IGF1R and INSR isoform Short have similar binding characteristics, both bind IGF1 and have a low affinity for insulin. Defects in IGF1R may be a cause in some cases of resistance to insulin-like growth factor 1 (IGF1 resistance). The antibody is specific to IGF1R.

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