

Anti-IGF1R [IGFR 24-60] Standard Size Ab01290-10.0

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Kappa

Clone Number: IGFR 24-60

Alternative Name(s) of Target: IGF1 receptor; Insulin-like growth factor 1 receptor; type I IGF receptor; Insulin-like growth factor I receptor; IGF-I receptor; CD221; 24 60

UniProt Accession Number of Target Protein: P08069

Published Application(s): inhibitory, IP

Published Species Reactivity: Human

Immunogen: This antibody was raised by immunising BALB/c mice with transfected mouse fibroblasts expressing high levels of human IGF1R (IGF1R/3T3).

Specificity: This antibody is specific for the human insulin-like growth factor 1 receptor (IGF1R). It recognises the extracellular portion of the receptor, specifically an epitope in the cysteine rich domain of the alpha subunit, between amino acids 184 and 283. It does not cross-react with rat or mouse IGF1R or human insulin receptors in co-precipitation or immunodepletion assays.

Application Notes: The ability of this antibody to bind human IGF1R has been confirmed in IGF1 binding assays using both IGF1R-overexpressing IGF1R/3T3 cells and soluble receptors (Soos et al, 1992). This antibody efficiently precipitates human IGF1R solubilised from IGF1R/3T3 cells (Soos et al, 1992) and human placental membranes (Baillyes et al, 1997), and has been used in immunoprecipitation analysis of 293 cells transfected with IGF1R or chimeric IGF1R-insulin receptor (IR) constructs (Schumacher et al, 1993). When immobilised, this antibody has been shown to remove essentially all soluble, IGF1R/3T3-derived IGF1R (Soos et al, 1992) and human placental membrane-derived IGF1R (Soos et al, 1993) in immunodepletion experiments. This antibody strongly inhibits IGF1 binding to its receptor (Soos et al, 1992), and has been shown to suppress IGF1-mediated stimulation of skin fibroblast proliferation (Okubo et al 2003).

Antibody First Published in: Soos et al. A panel of monoclonal antibodies for the type I insulin-like growth factor receptor. Epitope mapping, effects on ligand binding, and biological activity. J Biol Chem. 1992 Jun 25;267(18):12955-63. [PMID:1377676](https://pubmed.ncbi.nlm.nih.gov/1377676/)

Note on publication: Describes the original generation of this antibody, and the characterisation of its specificity.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration:

1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.