

**Anti-IGF1/Igf I Rabbit Monoclonal Antibody**  
**Catalog # ABO13370****Specification**

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**Anti-IGF1/Igf I Rabbit Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P05019</a>
Host	Rabbit
Isotype	Rabbit IgG
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-IGF1/Igf I Rabbit Monoclonal Antibody . Tested in WB application. This antibody reacts with recombinant protein.

**Anti-IGF1/Igf I Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 3479

**Other Names**

Insulin-like growth factor I, IGF-I, Mechano growth factor, MGF, Somatomedin-C, IGF1, IBP1

**Calculated MW**

21841 MW KDa

**Application Details**

WB 1:500-1:2000

**Subcellular Localization**

Secreted.

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human IGF1

**Purification**

Affinity-chromatography

Storage

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-IGF1/Igf I Rabbit Monoclonal Antibody - Protein Information**

**Name** IGF1 ([HGNC:5464](#))

### Function

The insulin-like growth factors, isolated from plasma, are structurally and functionally related to insulin but have a much higher growth-promoting activity. May be a physiological regulator of [1-14C]- 2-deoxy-D-glucose (2DG) transport and glycogen synthesis in osteoblasts. Stimulates glucose transport in bone-derived osteoblastic (PyMS) cells and is effective at much lower concentrations than insulin, not only regarding glycogen and DNA synthesis but also with regard to enhancing glucose uptake. May play a role in synapse maturation (PubMed:<a href="http://www.uniprot.org/citations/21076856" target="\_blank">21076856</a>, PubMed:<a href="http://www.uniprot.org/citations/24132240" target="\_blank">24132240</a>). Ca(2+)-dependent exocytosis of IGF1 is required for sensory perception of smell in the olfactory bulb (By similarity). Acts as a ligand for IGF1R. Binds to the alpha subunit of IGF1R, leading to the activation of the intrinsic tyrosine kinase activity which autophosphorylates tyrosine residues in the beta subunit thus initiating a cascade of down-stream signaling events leading to activation of the PI3K-AKT/PKB and the Ras-MAPK pathways. Binds to integrins ITGAV:ITGB3 and ITGA6:ITGB4. Its binding to integrins and subsequent ternary complex formation with integrins and IGFR1 are essential for IGF1 signaling. Induces the phosphorylation and activation of IGFR1, MAPK3/ERK1, MAPK1/ERK2 and AKT1 (PubMed:<a href="http://www.uniprot.org/citations/19578119" target="\_blank">19578119</a>, PubMed:<a href="http://www.uniprot.org/citations/22351760" target="\_blank">22351760</a>, PubMed:<a href="http://www.uniprot.org/citations/23243309" target="\_blank">23243309</a>, PubMed:<a href="http://www.uniprot.org/citations/23696648" target="\_blank">23696648</a>). As part of the MAPK/ERK signaling pathway, acts as a negative regulator of apoptosis in cardiomyocytes via promotion of STUB1/CHIP-mediated ubiquitination and degradation of ICER-type isoforms of CREM (By similarity).

### Cellular Location

Secreted {ECO:0000250|UniProtKB:P05017}.

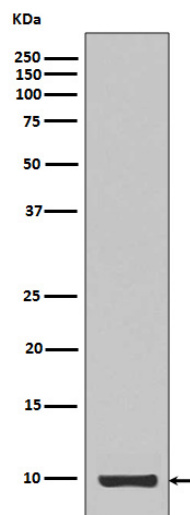
## Anti-IGF1/Igf I Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-IGF1/Igf I Rabbit Monoclonal Antibody - Images





Western blot analysis of Calreticulin expression in IGF1 recombinant protein.