

## **Anti-IGF1 Antibody**

Rabbit Anti Human Polyclonal Antibody Catalog # ALS17732

## **Specification**

#### **Anti-IGF1 Antibody - Product Information**

Application WB, IHC-P, E,

Neut

Primary Accession
Predicted
Host
Clonality
Isotype
Calculated MW
P05019
Human
Rabbit
Polyclonal
IgG
21841

#### Anti-IGF1 Antibody - Additional Information

#### **Gene ID 3479**

Alias Symbol IGF1

**Other Names** 

IGF1, IGF-IA, IGF-IB, IGFI, IBP1, IGF-I, Insulin-like growth factor 1, Insulin-like growth factor I, Insulin-like growth factor IA, Insulin-like growth factor IB, Mechano growth factor, Somatomedin-C, IGF1A, MGF

# Target/Specificity Human IGF-I

Reconstitution & Storage Immunoaffinity purified

## **Precautions**

Anti-IGF1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

#### **Anti-IGF1 Antibody - Protein Information**

### Name IGF1

# Synonyms IBP1

# 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="h ttp://www.uniprot.org/citations/21076856" target=" blank">21076856</a>, PubMed:<a href="http://www.uniprot.org/ci tations/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 initiatiating 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/c itations/19578119" target=" blank">19578119</a>, PubMed:<a href="http://www.uniprot.org/ci tations/22351760" target=" blank">22351760</a>, PubMed:<a href="http://www.uniprot.org/ci tations/23696648" target=" blank">23696648</a>, PubMed:<a href="http://www.uniprot.org/ci tations/23243309" target=" blank">23243309</a>).

#### **Cellular Location**

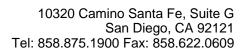
Secreted

{ECO:0000250|UniProtKB:P05017}.

## **Anti-IGF1 Antibody - Protocols**

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

• Western Blot





• Blocking Peptides

- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture