

# Human IGF-1 antibody

Catalog Number: ATGA0311

## PRODUCT INFORMATION

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**Catalog number**

ATGA0311

**Clone No.**

AT6F8

**Product type**

Monoclonal Antibody

**UnitProt No.**

P05019

**NCBI Accession No.**

NP\_000609

**Alternative Names**

IBP1, IGF-1, IGFI, IGF-IA, IGF-IB, Insulin like growth factor 1 (somatomedin C), Insulin like growth factor IA, Insulin like growth factor IB, Insulin-like growth factor-1 IGF IA, Mechano growth factor, MGF, Somatomedin C

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human IGF1 (49-118aa) purified from E. coli

**Isotype**

IgG2b kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, ICC/IF

**Usage**

The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended starting dilution is 1:1000.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

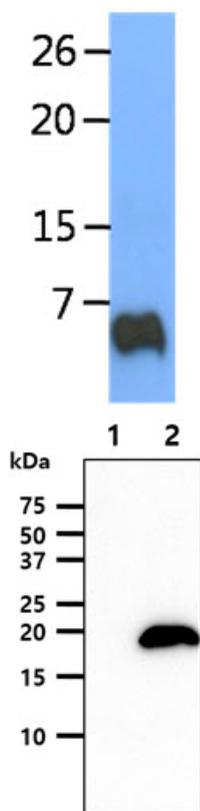
Insulin-like growth factor 1 (IGF-1), also called somatomedin C, is a protein that in humans is encoded by the IGF1 gene. IGF-1 has also been referred to as a Sulfation factor and its effects were termed nonsuppressible insulin-like activity (NSILA) in the 1970s. IGF-1 is a hormone similar in molecular structure to insulin. It plays an important role in childhood growth and continues to have anabolic effects in adults. A synthetic analog of IGF-1, mecasermin, is used for the treatment of growth failure. IGF-1 consists of 70 amino acids in a single chain with three intramolecular disulfide bridges. IGF-1 has a molecular weight of 7,649 daltons.

### General References

- Hoppener J.W., et al. (1985) Hum Genet 69(2): 157-160
- Jansen M., et al. (1983) Nature 306(5943): 609-611
- Salmon W., et al. (1957) J Lab Clin Med 49(6): 825-836
- Keating G.M., (2008) BioDrugs 22(3): 177-188
- Rinderknecht E., et al. (1978) J Biol Chem 253(8): 2769-2776

## DATA

### Western blot analysis (WB)



The human IGF1 recombinant protein (12.5ng) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human IGF1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human IGF1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

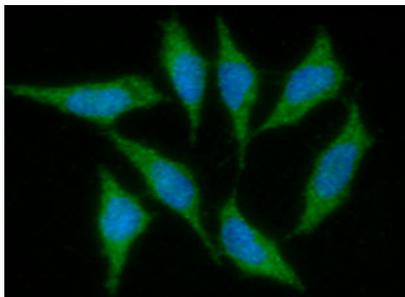
Lane 1.: 293T cell lysate

Lane 2.: IGF1 transfected 293T cell lysate

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### Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of IGF1 in PC3 cells. The cell was stained with ATGA0311 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).