

## Product datasheet for **AM50335PU-S**

### IGF1 Mouse Monoclonal Antibody [Clone ID: AT6F8]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	AT6F8
Applications:	ELISA, IF, WB
Recommended Dilution:	The antibody has been tested by ELISA, Western blot and ICC/IF 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.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant human IGF1 (49-118aa) purified from E. coli.
Specificity:	Recognizes Human IGF1. Other species not tested.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	insulin like growth factor 1
Database Link:	<a href="#">Entrez Gene 3479 Human P05019</a>



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**Background:**

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.

**Synonyms:**

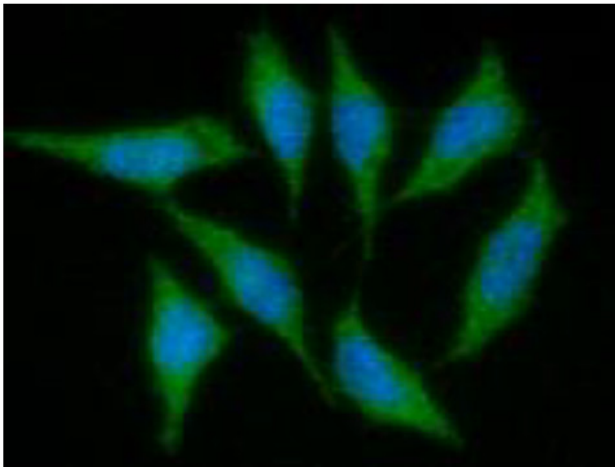
IGF-I, Somatomedin-C, Mechano growth factor, MGF, IBP1

**Protein Families:**

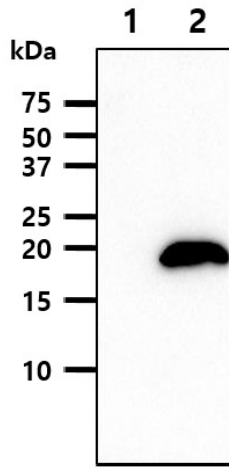
Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein

**Protein Pathways:**

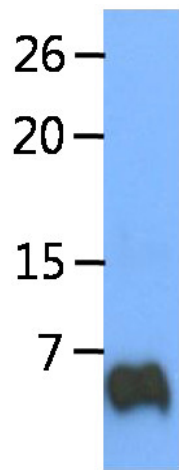
Dilated cardiomyopathy, Focal adhesion, Glioma, Hypertrophic cardiomyopathy (HCM), Long-term depression, Melanoma, mTOR signaling pathway, Oocyte meiosis, p53 signaling pathway, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer

**Product images:**

ICC/IF analysis of IGF1 in PC3 cells. The cell was stained with AM50335PU (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



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.



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.