

Rabbit anti-Human IGF1 Polyclonal Antibody | anti-IGF1 antibody

Anti-IGF1 Antibody

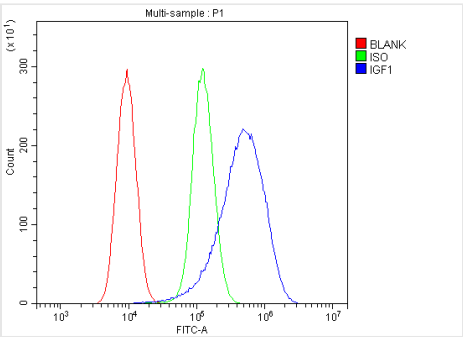
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125519	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry

PRODUCT SYNONYMS

IGF1; Polyclonal Antibody; Anti-IGF1 Antibody; IBP1; Insulin-like growth factor I; IGF-I; Mechano growth factor; MGF; Somatomedin-C; insulin like growth factor 1; anti-IGF1 antibody

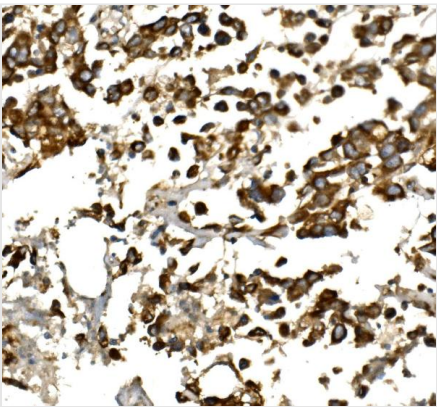
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for IGF1 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-IGF1 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Immunogen	E Coli-derived human IGF1 recombinant protein (Position: P50-A118).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of Hela cells using anti-IGF1 antibody (AAA125519). Overlay histogram showing Hela cells stained with AAA125519 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-IGF1 Antibody (AAA125519, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 1. IHC analysis of IGF1 using anti-IGF1 antibody (AAA125519). IGF1 was detected in paraffin-embedded section of human pancreatic cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-IGF1 Antibody (AAA125519) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-IGF1 antibody	Insulin-like growth factor 1(IGF-1) also known as somatomedin C or mechano growth factor is a protein that in humans is encoded by the IGF1 gene. 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 7649 daltons. Justice et al. (1990) placed the mouse IGF1 gene on chromosome 10.
References	- Höppener JW, de Pagter-Holthuisen P, Geurts van Kessel AH, Jansen M, Kittur SD, Antonarakis SE, Lips CJ, Sussenbach JS (1985). "The human gene encoding insulin-like growth factor I is located on chromosome 12". Hum. Genet. 69 (2): 157-60. - Jansen M, van Schaik FM, Ricker AT, Bullock B, Woods DE, Gabbay KH, Nussbaum AL, Sussenbach JS, Van den Brande JL (1983). "Sequence of cDNA encoding human insulin-like growth factor I precursor". Nature 306 (5943): 609-11.

NCBI AND UNIPROT INFORMATION

NCBI GI #	163659903
NCBI GeneID	3479
NCBI Accession #	NP_001104755.1
NCBI GenBank Nucleotide #	NM_001111285.1
UniProt Accession #	P05019; P01343; Q14620; B2RWM7; E9PD02
Molecular Weight	21,841 Da
NCBI Official Full Name	insulin-like growth factor 1 isoform 3 preproprotein
NCBI Official Synonym Full Names	insulin-like growth factor 1 (somatomedin C)
NCBI Official Symbol	IGF1
NCBI Official Synonym Symbols	IGFI; IGF-I; IGF1A
NCBI Protein Information	insulin-like growth factor 1; MGF; IGF-IA; IGF-IB; somatomedin-C; mechano growth factor; insulin-like growth factor I; insulin-like growth factor IA; insulin-like growth factor IB

UniProt Protein Name	Insulin-like growth factor I
UniProt Gene Name	IGF1
UniProt Synonym Gene Names	IBP1; IGF-I; MGF
UniProt Entry Name	IGF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/igf1-antibody-flow-cytometry-immunohistochemistry-elisa/125519>