

Anti-IGF1 Antibody Picoband™

Catalog Number: A00148

About IGF1

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.

Overview

Product Name	Anti-IGF1 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-IGF1 Antibody Picoband™ catalog # A00148. Tested in ELISA, Flow Cytometry, IHC applications. This antibody reacts with Human.
Application	ELISA, Flow Cytometry, IHC
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P05019

Technical Details

Immunogen	E.coli-derived human IGF1 recombinant protein (Position: P50-A118).
Predicted Reactive Species	Chicken
Recommended Detection Systems	Boster recommends HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.

Suggested Dilutions

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human

Flow Cytometry, 1-3ug/1x10⁶ cells, Human

ELISA (Cap), 1-5ug/ml, Human

Anti-IGF1 Antibody Picoband™ (A00148) Images

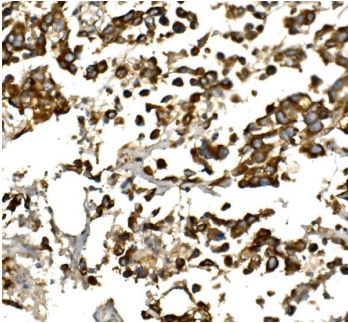


Figure 1. IHC analysis of IGF1 using anti-IGF1 antibody (A00148). IGF1 was detected in paraffin-embedded section of human pancreatic cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-IGF1 Antibody (A00148) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

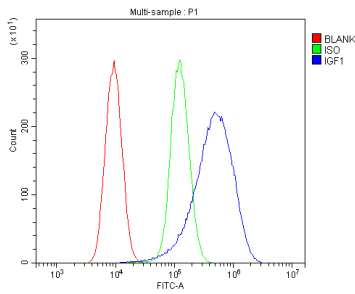


Figure 2. Flow Cytometry analysis of Hela cells using anti-IGF1 antibody (A00148). Overlay histogram showing Hela cells stained with A00148 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-IGF1 Antibody (A00148, 1ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

8 Publications Citing This Product

1. PubMed ID: 10.3748/wjg.v22.i23.5353, Long-pulse gastric electrical stimulation protects interstitial cells of Cajal in diabetic rats via IGF-1 signaling pathway
2. PubMed ID: 10.3892/mmr.2013.1339, Changes in serum IGF-1 level and tumor VEGF expression in mice with colorectal cancer under hyperglycemic conditions
3. PubMed ID: 10.3390/ijms14059051, IGF-1 Antibody Prolongs the Effective Duration Time of Botulinum Toxin in Decreasing Muscle Strength

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