BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Insulin-like growth factor I IGF1 Antibody Picoband®

Catalog Number: PA1374

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.

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Overview

Product Name	Anti-Insulin-like growth factor I IGF1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Insulin-like growth factor I IGF1 Antibody catalog # PA1374. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
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	A synthetic peptide corresponding to a sequence in the middle region of human IGF-1, different from the mouse and rat sequences by one amino acid.

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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and 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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat, Mouse Western blot, 0.1-0.5ug/ml, Human

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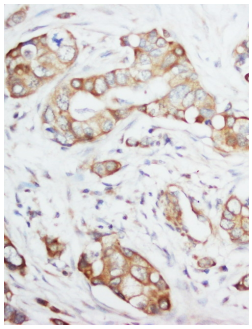
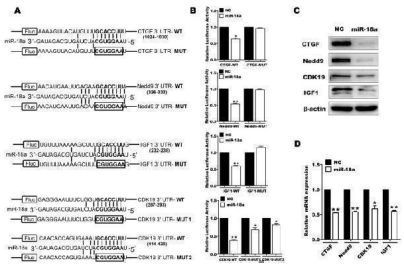
Anti-Insulin-like growth factor I IGF1 Antibody Picoband® (PA1374) Images



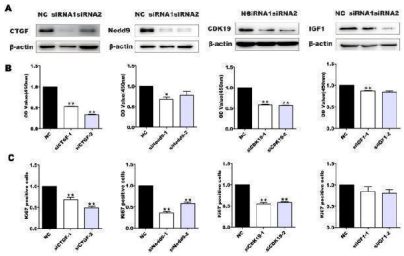
Anti-IGF-1 antibody, PA1374, Western blottingWB: Recombinant Human IGF-1 Protein 2.5ng



Anti-IGF-1 antibody, PA1374, IHC(P)IHC(P): Human Mammary Cancer Tissue



Analysis of the target genes of miR-18a in pancreatic progenitor cells. Schematic of the base pairing of miR-18a and its predicted target sequences on the 3′UTR of CTGF, Nedd9, IGF1, and CDK19 (A). miR-18a or NC, pMIR-target 3′UTR-luciferase or pMIR-target 3′UTR mut-luciferase, and Renilla pRL-SV40 vectors were co-transfected into 3T3 cells. Forty-eight hours later, Luciferase activity was determined using a Dual-Luciferase Reporter Assay System Kit. All Firefly luciferase values were normalized to the co-transfected Renilla luciferase values (B). Pancreatic progenitor cells were transfected with miR-18a or NC. Seventy-two hours after transfection, western blots were performed to determine the expression of CTGF, Nedd9, CDK19, and IGF1. beta-actin was used as an endogenous control (C). Pancreatic progenitor cells were transfected with miR-18a or NC. Forty-eight hours after transfection, real-time quantitative RT-PCR was performed to determine the expression of CTGF, Nedd9, CDK19 , and IGF1 mRNA (D). The data from the miRNA transfected groups were normalized to that of control group. * $P < 0.05$, ** $P < 0.01$. Uncropped images for the blots were shown in . Index in PubMed under a CC BY license. PMID: 28332553



Effect of miR-18a target gene knock-down on the proliferation of pancreatic progenitor cells. Pancreatic progenitor cells were transfected with siCTGF-1/2, siNedd9-1/2, siCDK19-1/2, and siIGF1-1/2 or sicontrol (NC) for 72 h, and the knockdown of these genes was confirmed by western blot assay (A). The proliferation of pancreatic progenitor cells that knocked down the target genes were

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evaluated by CCK8 assay (B) and Ki67 immunofluorescent staining (C). The Ki67-positive cells were divided by DAPI-positive cells. The data from the siRNA transfected groups were normalized to that of control group. * P < 0.05, ** P < 0.01. Uncropped images for the blots were shown in . Index in PubMed under a CC BY license. PMID: 28332553

11 Publications Citing This Product

1. PubMed ID: 33617969, Peng MF,Tian S,Song YG,Li CX,Miao MS,Zhen-Ren,Li M.Effects of total flavonoids from Eucommia ulmoides Oliv. leaves on polycystic ovary syndrome with insulin resistance model rats induced by letrozole combined with a high-fat diet.J Ethnopharmacol.2021 Feb

2. PubMed ID: 21870079, Chai H, Guo L, Wang X, Fu Y, Guan J, Tan L, Ren L, Yang K. J Mater Sci Mater Med. 2011 Nov;22(11):2525-35. Doi: 10.1007/S10856-011-4427-Z. Epub 2011 Aug 26. Antibacterial Effect Of 317L Stainless Steel Contained Copper In Prevention Of Implant-Rel...

3. PubMed ID: 22735908, Huang P, Zhou Z, Wang H, Wei Q, Zhang L, Zhou X, Hutz Rj, Shi F. Int J Mol Med. 2012 Sep;30(3):650-8. Doi: 10.3892/Ijmm.2012.1041. Epub 2012 Jun 20. Effect Of The Igf-1/Pten/Akt/Foxo Signaling Pathway On The Development And Healing Of ...

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