BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Hepatocyte growth factor HGF Antibody Picoband®

Catalog Number: RP1062

About Hgf

Hepatocyte growth factor/scatter factor (HGF/SF) is a paracrine cellular growth, motility and morphogenic factor. This gene is mapped to 7q21.11. It is secreted by mesenchymal cells and targets and acts primarily uponepithelial cells and endothelial cells, but also acts on haemopoietic progenitor cells. It has been shown to have a major role in embryonic organ development, specifically in myogenesis, in adult organ regeneration and in wound healing. HGF can regulate cell growth, cell motility, and morphogenesis by activating a tyrosine kinase signaling cascade after binding to the proto-oncogenic c-Met receptor. HGF also serves as a paracrine mediator to control placental development and growth. HGF was identified as one of the liver sinusoidal endothelial cell-derived paracrine mediators promoting hepatocyte growth.

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Overview

Product Name	Anti-Hepatocyte growth factor HGF Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Hepatocyte growth factor HGF Antibody catalog # RP1062. Tested in 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	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	Q08048

Technical Details

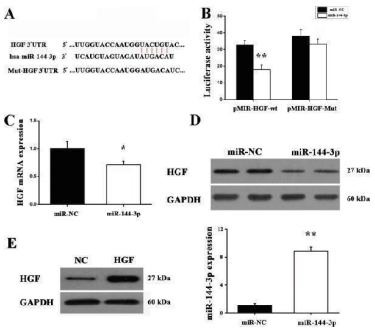
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of mouse HGF, different from the related human sequence by five amino acids, and from the related rat sequence by one amino

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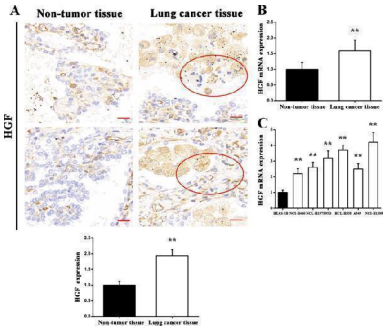
	acid.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

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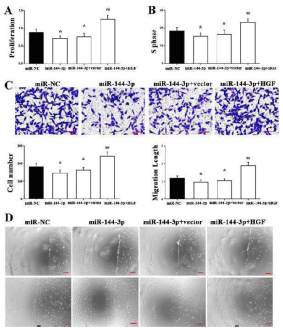
Anti-Hepatocyte growth factor HGF Antibody Picoband® (RP1062) Images



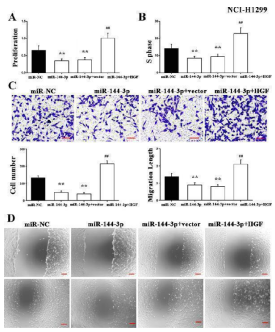
HGF is a direct target of miR-144-3p. a HGF 3′-UTR was a direct target of miR-144-3p. b Luciferase reporter assay detected the luciferase activity of cells co-transfected with the wild-type (WT) or mutant (Mut) HGF 3′-UTR reporter genes or negative control miRNA mimics (miR-NC). ** P < 0.01 versus miR-NC. c RT-qPCR was used to quantify HGF expression at mRNA levels. ** P < 0.01 versus negative control. d Western blot was used to measure HGF protein expression in A549 cells co-transfected with miR-144-3p or controls. e Western blot was used to detect the expression of HGF protein, and RT-qPCR was used to detect expression of miR-144-3p. ** P < 0.01 versus miR-NC Index in PubMed under a CC BY license. PMID: 35568918



HGF expression levels in lung cancer tissues and various lung cancer lines. a Immunohistochemical staining was used to measure HGF protein expression. b RT-qPCR was used to quantify HGF expression at the mRNA level in tumor tissues and paired normal tissues. c RT-qPCR was used to analyze HGF expression in lung cancer cell lines and a normal lung cell line. ** P < 0.01 versus controls. Scale bar = 50 um Index in PubMed under a CC BY license. PMID: 35568918



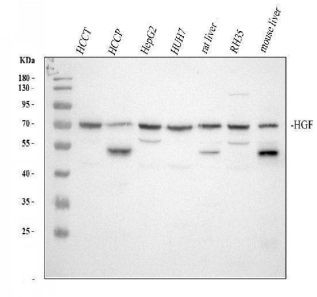
Function of miR-144-3p in A549 cells. a Proliferation of A549 cells transfected with control or miR-144-3p mimics together with HGF was detected by CCK-8 assay. * P < 0.05 versus negative control miRNA mimics (miR-NC). ## P < 0.01 versus miR-144-3p + Vector. b Flow cytometry was used to analyze the cell cycle. * P < 0.05 versus miR-NC. ## P < 0.01 versus miR-144-3p + Vector. Representative images and counts of cell migration following transfection with control or miR-144-3p together with HGF, c Transwell assay and d Wound-healing assay. * P < 0.05 versus miR-NC. ## P < 0.01 versus miR-144-3p + Vector. Scale bar = 25 um. miR-NC, miR-144, miR-144 + vector and miR-144 + HGF need to be explained in a figure Index in PubMed under a CC BY license. PMID: 35568918



Function of miR-144-3p in the phenotype of NCI-H1299 cells. a Proliferation of NCI-H1299 cells transfected with control or miR-144-3p mimics together with HGF, as determined by CCK-8 assay. ** P < 0.01 versus miR-NC. ## P < 0.01 versus miR-144-3p + Vector. b Flow cytometry was used to analyze the cell cycle. ** P < 0.01 versus miR-NC. ## P < 0.01 versus miR-144-3p + Vector. Represented images and counts of cell migration following transfection with control or miR-144-3p mimics together with HGF, as detected by c Transwell assay and d Wound-healing assay. ** P < 0.01 versus miR-NC. ## P < 0.01 versus miR-144-3p + Vector. Scale bar = 25 um. miR-NC, miR-144, miR-144 + vector and

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miR-144 + HGF need to be explained in a figure Index in PubMed under a CC BY license. PMID: 35568918



Western blot analysis of HGF using anti-HGF antibody (RP1062). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human hepatocellular carcinoma tumor tissue (HCCT) lysates, Lane 2: human hepatocellular carcinoma paracancerous tissue (HCCP) lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: human HUH7 whole cell lysates, Lane 5: rat liver tissue lysates, Lane 6: rat RH35 whole cell lysates, Lane 7: mouse liver tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HGF antigen affinity purified polyclonal antibody (Catalog # RP1062) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for HGF at approximately 70 kDa. The expected band size for HGF is at 83 kDa.

14 Publications Citing This Product

1. PubMed ID: 24137203, Zhang Z, Wang G, Ma J, Liu H, Zhang X, Zhu G. Exp Ther Med. 2013 Aug;6(2):427-434. Epub 2013 Jun 6. Effect Of Herba Centellae On The Expression Of Hgf And Mcp-1.

2. PubMed ID: 24137203, Zhang Z, Wang G, Ma J, Liu H, Zhang X, Zhu G. Exp Ther Med. 2013 Aug;6(2):427-434. Epub 2013 Jun 6. Effect Of Herba Centellae On The Expression Of Hgf And Mcp-1.

3. PubMed ID: 22661380, Li W, Jiang H, Feng Jm. Mol Cell Biochem. 2012 Sep;368(1-2):137-45. Doi: 10.1007/S11010-012-1352-5. Epub 2012 Jun 4. Isogenic Mesenchymal Stem Cells Transplantation Improves A Rat Model Of Chronic Aristolochic Acid Nephropathy Via Upregulation Of ...

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