BOSTER BIOLOGICAL TECHNOLOGY
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Anti-FGF2 Antibody Picoband®

Catalog Number: A00121-1

About FGF2

FGF2 has been implicated in a multitude of physiologic and pathologic processes, including limb development, angiogenesis, wound healing, and tumor growth. Human FGF2 shares 96% and 97% amino acid sequence homology with mouse and rat respectively. FGF2 belongs to the fibroblast growth factor (FGF) family. Fibroblast growth factors (FGFs) exhibit widespread mitogenic and neurotrophic activities. Nine members of the family are currently known, and FGF-1 and FGF-2 are present in relatively high levels in CNS. FGF-2 is expressed by at low levels in many tissues and cell types and reaches high concentrations in brain and pituitary.

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Overview

Product Name	Anti-FGF2 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-FGF2 Antibody Picoband® catalog # A00121-1. Tested in ELISA, IF, IHC, ICC, WB applications. This antibody reacts with Human. 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	IF, IHC, ICC, WB, ELISA (Cap)
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.01 mg 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	P09038

Technical Details

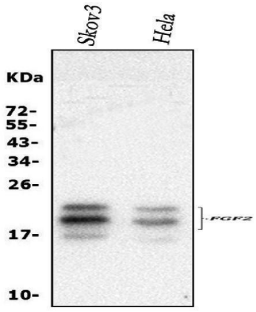
Immunogen	E. coli-derived human FGF2 recombinant protein (Position: P143-S288).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

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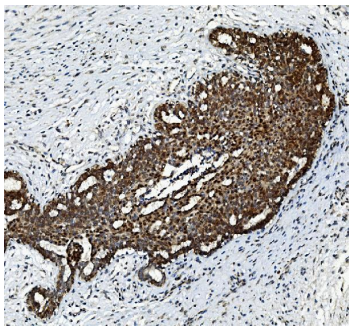
	blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml Immunocytochemistry/Immunofluorescence, 5 ug/ml ELISA (Cap), 1-5ug/ml

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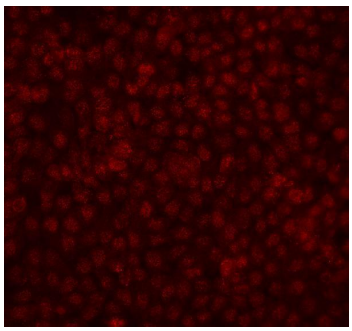
Anti-FGF2 Antibody Picoband® (A00121-1) Images



Western blot analysis of FGF2 using anti-FGF2 antibody (A00121-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human SKOV3 whole cell lysates, Lane 2: human Hela whole cell 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-FGF2 antigen affinity purified polyclonal antibody (Catalog # A00121-1) 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 Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for FGF2 at approximately 17-21 kDa. The expected band size for FGF2 is at 31 kDa.



IHC analysis of FGF2 using anti-FGF2 antibody (A00121-1). FGF2 was detected in a paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-FGF2 Antibody (A00121-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IF analysis of FGF2 using anti-FGF2 antibody (A00121-1). FGF2 was detected in an immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-FGF2 Antibody (A00121-1) overnight at 4°C. DyLight®550 Conjugated Goat Anti-Rabbit IgG (BA1133) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

6 Publications Citing This Product

1. PubMed ID: 10.1039/D1TB00515D, Construction of AuHQ nano-sensitizer for enhanced radiotherapy efficacy through remolding tumor vasculature

2. PubMed ID: 31897132, Chen X,Zhao H,Chen C,Li J,He J,Fu X,Zhao H.The HPA/SDC1 axis promotes invasion and metastasis of pancreatic cancer

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cells by activating EMT via FGF2 upregulation.Oncol Lett.2020 Jan;19(1):211-220.doi: 10.3892/ol.2019.11121.Epub 2019 Nov 19.PMID:31897132;PM

3. PubMed ID: 25913359, Hu C, Zhang T, Ren B, Deng Z, Cai L, Lei J, Ping A. Med Sci Monit. 2015 Apr 27;21:1200-6. Doi: 10.12659/Msm.892939. Effect Of Vacuum-Assisted Closure Combined With Open Bone Grafting To Promote Rabbit Bone Graft Vascularization.

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Anti-FGF2 Antibody

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