

Anti-Fibroblast growth factor 2 FGF2 Antibody

Catalog Number: RP1006

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.

Overview

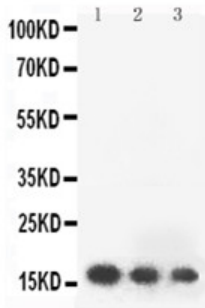
Product Name	Anti-Fibroblast growth factor 2 FGF2 Antibody
Reactive Species	Human
Description	Boster Bio Anti-Fibroblast growth factor 2 FGF2 Antibody catalog # RP1006. Tested in ELISA, IHC, WB applications. This antibody reacts with Human.
Application	ELISA, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ . Carrier free (No BSA) form available in stock. If you want this antibody carrier free please specify "Carrier Free" or "No BSA" in your order note.
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

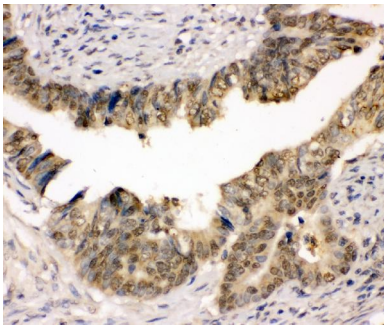
Immunogen	E.coli-derived human FGF2 recombinant protein (Position: P143-S288).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	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 µg/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>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), 0.5-1μg/ml, Human, By Heat ELISA , 0.1-0.5μg/ml, Human, - Western blot, 0.1-0.5μg/ml, Human</p> <p>For protocols, please visit https://www.bosterbio.com/protocol-and-troubleshooting/</p>

Anti-Fibroblast growth factor 2 FGF2 Antibody (RP1006) Images



Anti-FGF2 antibody, RP1006, Western blotting
 All lanes: Anti FGF2(RP1006) at 0.5 μ g/ml
 Lane 1: Recombinant Human FGF2 Protein 10ng
 Lane 2: Recombinant Human FGF2 Protein 5ng
 Lane 3: Recombinant Human FGF2 Protein 2.5ng
 Predicted bind size: 17KD
 Observed bind size: 17KD



IHC analysis of FGF2 using anti-FGF2 antibody (RP1006). FGF2 was detected in paraffin-embedded section of human intestinal 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 1 μ g/ml rabbit anti-FGF2 Antibody (RP1006) 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.

7 Publications Citing This Product

1. 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 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
2. PubMed ID: 25999285, Wang J, Wang Z, Yao Y, Wu J, Tang X, Gu T, Li G. Tuberculosis (Edinb). 2015 Jul;95(4):505-14. Doi: 10.1016/J.Tube.2015.04.006. Epub 2015 May 9. The Fibroblast Growth Factor-2 Arrests Mycobacterium Avium Sp. Paratuberculosis Growth And Immunomodula...

3. PubMed ID: 26352430, Astragalosides promote angiogenesis via vascular endothelial growth factor and basic fibroblast growth factor in a rat model of myocardial infarction

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