

## Anti-FGF2 Antibody Picoband®

Catalog Number: A00121-3

### 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

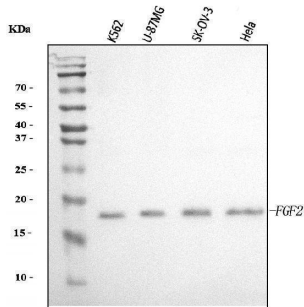
|                      |   |
|----------------------|---|
| Product Name         | Anti-FGF2 Antibody Picoband®  |
| Reactive Species     | Human, Mouse, Rat   |
| Description          | Boster Bio <a href="#">Anti-FGF2 Antibody</a> Picoband® catalog # A00121-3. Tested in IF, IHC, ICC, WB applications. 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          | IF, IHC, ICC, WB  |
| Clonality            | Polyclonal  |
| Formulation          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .   |
| Storage Instructions | 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 freezing and thawing.   |
| Host                 | Rabbit  |
| Uniprot ID           | P09038  |

### Technical Details

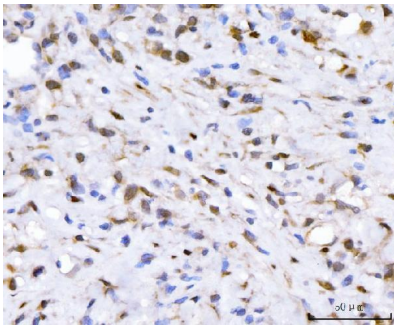
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|-------------------------------|--|
| Immunogen                     | A synthetic peptide corresponding to a sequence at the N-terminus of human FGF2, which shares 93.3% amino acid (aa) sequence identity with mouse and rat FGF2.                           |
| 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) 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, 0.25-0.5 ug/ml, Human<br>Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human, Mouse, Rat<br>Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human |

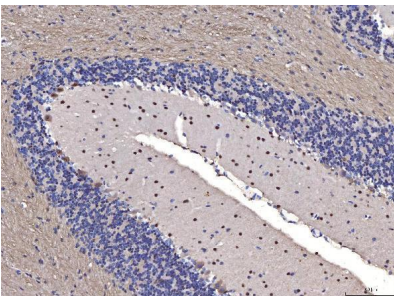
## Anti-FGF2 Antibody Picoband® (A00121-3) Images



Western blot analysis of FGF2 using anti-FGF2 antibody (A00121-3). 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 K562 whole cell lysates, Lane 2: human U-87MG whole cell lysates, Lane 3: human SK-OV-3 whole cell lysates, Lane 4: 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 # A00121-3) 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 18 kDa. The expected band size for FGF2 is at 18 kDa.

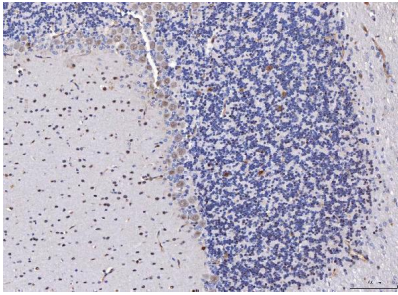


IHC analysis of FGF2 using anti-FGF2 antibody (A00121-3). FGF2 was detected in a paraffin-embedded section of mouse cerebellum tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-FGF2 Antibody (A00121-3) 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.

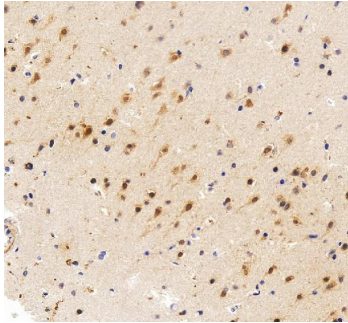


IHC analysis of FGF2 using anti-FGF2 antibody (A00121-3). FGF2 was detected in a paraffin-embedded section of rat cerebellum tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-FGF2 Antibody (A00121-3) 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.

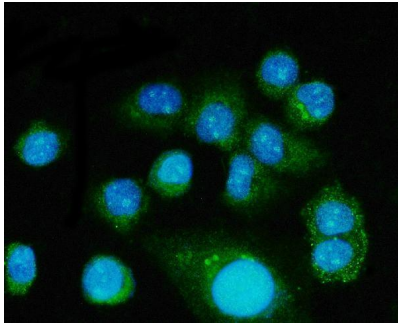
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IHC analysis of FGF2 using anti-FGF2 antibody (A00121-3). FGF2 was detected in a paraffin-embedded section of human brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-FGF2 Antibody (A00121-3) 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 (A00121-3). FGF2 was detected in an immunocytochemical section of SiHa 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 (A00121-3) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

## 6 Publications Citing This Product

1. PubMed ID: PMID:25419401, Effect of angiogenesis inhibitor SU6668 in combination with 5-Fu on liver metastasis from transplantation tumors of human colorectal cancer in nude mice
2. PubMed ID: 10.1080/1028602042000325609, Effects of isoliensinine on angiotensin II-induced proliferation of porcine coronary arterial smooth muscle cells
3. PubMed ID: 10.1016/j.bbrc.2017.06.041, MiR-129-5p inhibits non-small cell lung cancer cell stemness and chemoresistance through targeting DLK1

Visit [bosterbio.com/anti-fgf2-picoband-trade-antibody-a00121-3-boster.html](http://bosterbio.com/anti-fgf2-picoband-trade-antibody-a00121-3-boster.html) to see all 6 publications.

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### Anti-FGF2 Antibody

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