

**FGF-2 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10786****Specification**

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**FGF-2 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P09038</a>
Other Accession	<a href="#">NP_001997</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	30770

**FGF-2 Antibody - Additional Information****Gene ID 2247**

Application & Usage	<b>Western blot analysis (0.5-4 µg/ml).</b> <b>However, the optimal conditions should be determined individually.</b>
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**Other Names**

FGF2, FGF-2, FGF 2, Fibroblast Growth Factor 2, FGF 2, FGF2, Heparin-binding growth factor 2, HBGF-2, Basic fibroblast growth factor, bFGF, Putative heparin-binding growth factor 2, Kidney-derived growth factor

**Target/Specificity**

FGF-2

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) affinity purified rabbit anti-human FGF-2 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA and 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

FGF-2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## FGF-2 Antibody - Protein Information

**Name** FGF2

**Synonyms** FGFB

### Function

Acts as a ligand for FGFR1, FGFR2, FGFR3 and FGFR4 (PubMed:<a href="http://www.uniprot.org/citations/8663044" target="\_blank">8663044</a>). Also acts as an integrin ligand which is required for FGF2 signaling (PubMed:<a href="http://www.uniprot.org/citations/28302677" target="\_blank">28302677</a>). Binds to integrin ITGAV:ITGB3 (PubMed:<a href="http://www.uniprot.org/citations/28302677" target="\_blank">28302677</a>). Plays an important role in the regulation of cell survival, cell division, cell differentiation and cell migration (PubMed:<a href="http://www.uniprot.org/citations/8663044" target="\_blank">8663044</a>, PubMed:<a href="http://www.uniprot.org/citations/28302677" target="\_blank">28302677</a>). Functions as a potent mitogen in vitro (PubMed:<a href="http://www.uniprot.org/citations/1721615" target="\_blank">1721615</a>, PubMed:<a href="http://www.uniprot.org/citations/3964259" target="\_blank">3964259</a>, PubMed:<a href="http://www.uniprot.org/citations/3732516" target="\_blank">3732516</a>). Can induce angiogenesis (PubMed:<a href="http://www.uniprot.org/citations/23469107" target="\_blank">23469107</a>, PubMed:<a href="http://www.uniprot.org/citations/28302677" target="\_blank">28302677</a>). Mediates phosphorylation of ERK1/2 and thereby promotes retinal lens fiber differentiation (PubMed:<a href="http://www.uniprot.org/citations/29501879" target="\_blank">29501879</a>).

### Cellular Location

Secreted. Nucleus. Note=Exported from cells by an endoplasmic reticulum (ER)/Golgi-independent mechanism. Unconventional secretion of FGF2 occurs by direct translocation across the plasma membrane (PubMed:20230531). Binding of exogenous FGF2 to FGFR facilitates endocytosis followed by translocation of FGF2 across endosomal membrane into the cytosol (PubMed:22321063). Nuclear import from the cytosol requires the classical nuclear import machinery, involving proteins KPNA1 and KPNB1, as well as CEP57 (PubMed:22321063)

### Tissue Location

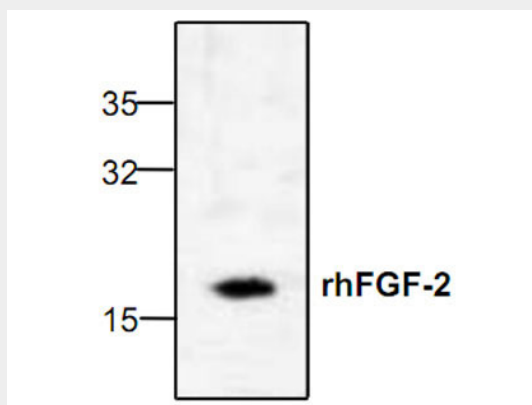
Expressed in granulosa and cumulus cells. Expressed in hepatocellular carcinoma cells, but not in non-cancerous liver tissue.

## FGF-2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## FGF-2 Antibody - Images



Western blot analysis with 50 ng recombinant human FGF-2.

#### **FGF-2 Antibody - Background**

FGF-2 is a basic heparin binding growth factor that stimulates the proliferation of a wide variety of cells including mesenchymal, neuroectodermal and endothelial cells. Human FGF-2 is a 17.2 kDa protein containing 154 amino acid residues.