

**KD-Validated Anti-Fibroblast Growth Factor 2 Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1817****Specification**

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**KD-Validated Anti-Fibroblast Growth Factor 2 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	<a href="#">P09038</a>
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 31 kDa, observed, 18-24kDa KDa
Gene Name	FGF2
Aliases	FGF2; Fibroblast Growth Factor 2; FGFB; Fibroblast Growth Factor 2 (Basic); Heparin-Binding Growth Factor 2; HBGF-2; FGF-2; bFGF; Basic Fibroblast Growth Factor bFGF; Basic Fibroblast Growth Factor; Prostatropin
Immunogen	Recombinant protein of human FGF2

**KD-Validated Anti-Fibroblast Growth Factor 2 Rabbit Monoclonal Antibody - Additional Information**

Gene ID	2247
<b>Other Names</b>	
Fibroblast growth factor 2, FGF-2, Basic fibroblast growth factor, bFGF, Heparin-binding growth factor 2, HBGF-2, FGF2, FGFB	

**KD-Validated Anti-Fibroblast Growth Factor 2 Rabbit Monoclonal Antibody - Protein Information****Name** FGF2**Synonyms** FGFB**Function**

Acts as a ligand for FGFR1, FGFR2, FGFR3 and FGFR4 (PubMed:[8663044](http://www.uniprot.org/citations/8663044)). Also acts as an integrin ligand which is required for FGF2 signaling (PubMed:[28302677](http://www.uniprot.org/citations/28302677)). Binds to integrin ITGAV:ITGB3 (PubMed:[28302677](http://www.uniprot.org/citations/28302677)). Plays an important role in the regulation of cell survival, cell division, cell differentiation and cell migration (PubMed:[28302677](http://www.uniprot.org/citations/28302677), PubMed:[8663044](http://www.uniprot.org/citations/8663044)). 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/3732516" target="\_blank">3732516</a>, PubMed:<a href="http://www.uniprot.org/citations/3964259" target="\_blank">3964259</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

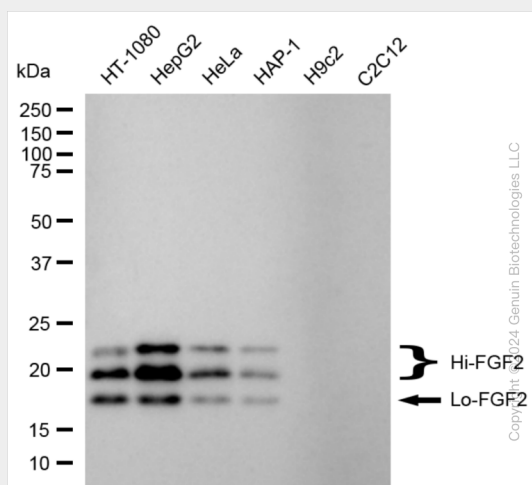
Expressed in granulosa and cumulus cells. Expressed in hepatocellular carcinoma cells, but not in non-cancerous liver tissue.

### KD-Validated Anti-Fibroblast Growth Factor 2 Rabbit Monoclonal Antibody - Protocols

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

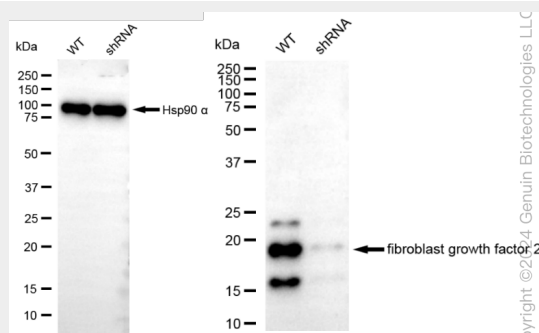
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### KD-Validated Anti-Fibroblast Growth Factor 2 Rabbit Monoclonal Antibody - Images

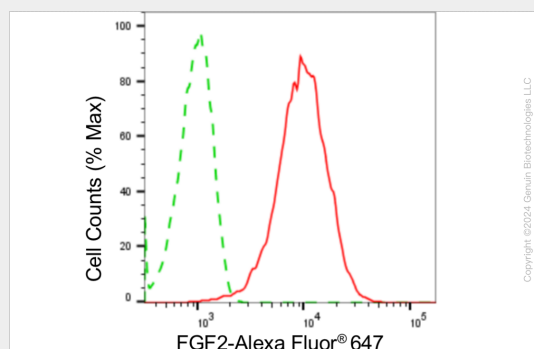


Western blotting analysis using anti-FGF2 antibody (Cat#AGI1817). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-FGF2

antibody (Cat#AGI1817, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-fibroblast growth factor 2 antibody (Cat#AGI1817). Fibroblast growth factor 2 expression in wild-type (WT) and fibroblast growth factor 2 (FGF2) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-fibroblast growth factor 2 antibody (Cat#AGI1817, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of FGF2 expression in HepG2 cells using anti-FGF2 antibody (Cat#AGI1817, 1:2,000). Green, isotype control; red, FGF2.