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

Rabbit monoclonal antibody
Catalog # AGI1817

Specification

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

Application	**WB, FC**
Primary Accession	P09038
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**

Other Names
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). Also acts as an integrin ligand which is required for FGF2 signaling (PubMed:28302677). Binds to integrin ITGAV:ITGB3 (PubMed:28302677). Plays an important role in the regulation of cell survival, cell division, cell differentiation and cell migration (PubMed:28302677, PubMed:8663044). Functions as a

potent mitogen in vitro (PubMed:1721615, PubMed:3732516, PubMed:3964259). Can induce angiogenesis (PubMed:23469107, PubMed:28302677). Mediates phosphorylation of ERK1/2 and thereby promotes retinal lens fiber differentiation (PubMed:29501879).

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)

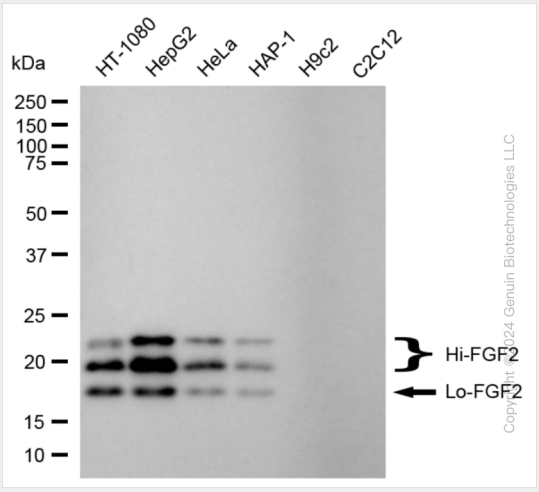
Tissue Location
Expressed in granulosa and cumulus cells. Expressed in hepatocellular carcinoma cells, but not in non-cancerous liver tissue.

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 Cytomety
- 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

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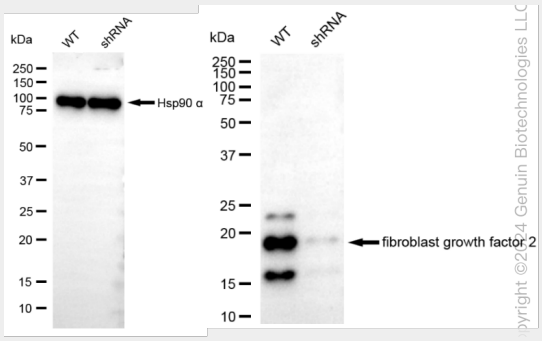
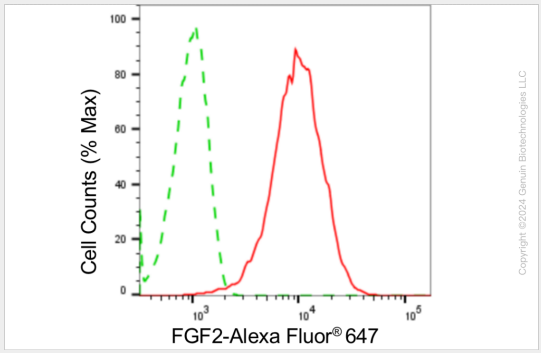
antibody (Cat#AGI1817, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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.