
Product Name: KD-Validated Fibroblast Growth Factor 2 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00785

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 30.8kDa

Antigen Information

Gene Name	FGF2 FGF2; Fibroblast Growth Factor 2; FGFB; Fibroblast Growth Factor 2 (Basic); Heparin-Binding
Alternative Names	Growth Factor 2; HBGF-2; FGF-2; BFGF; Basic Fibroblast Growth Factor BFGF; Basic Fibroblast Growth Factor; Prostatropin
Gene ID	2247.0
SwissProt ID	P09038
Immunogen	Recombinant protein of human FGF2

Background

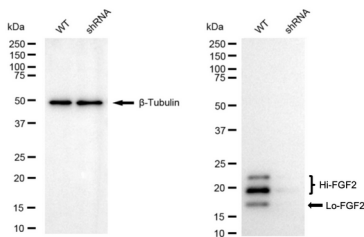
The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin

and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from non-AUG (CUG) and AUG initiation codons, resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF. [provided by RefSeq, Jul 2008]

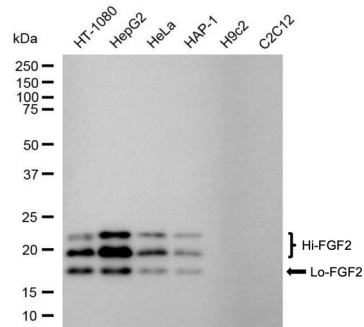
Research Area

Cardiovascular, Signal Transduction, Neuroscience, Stem Cells, Cancer, Developmental Biology

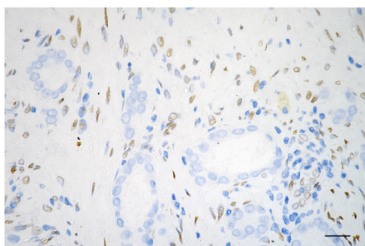
Image Data



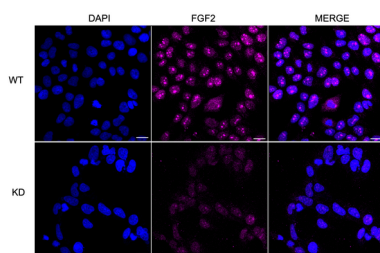
Western blotting analysis using FGF2 antibody (KVA00785). FGF2 expression in wild-type (WT) and FGF2 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with FGF2 antibody (KVA00785, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



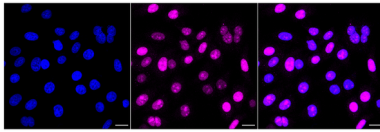
Western blotting analysis using FGF2 antibody (KVA00785). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with FGF2 antibody (KVA00785, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively. FGF2, fibroblast growth factor 2.



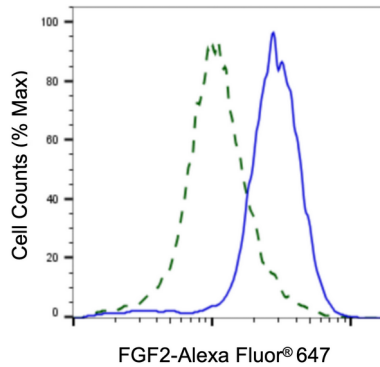
Immunohistochemistry was performed on paraffin-embedded human prostatic adenocarcinoma using FGF2 antibody (KVA00785, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



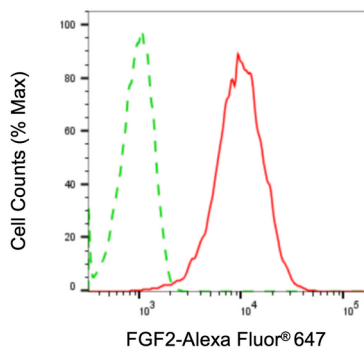
Immunocytochemical staining of HeLa cells using FGF2 antibody (KVA00785, 1:1,000). Top panel: wild-type (WT); Bottom panel: FGF2 shRNA knockdown (KD). Nuclei were stained blue with DAPI; FGF2 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with FGF2 antibody (KVA00785, 1:1,000). Nuclei were stained blue with DAPI; FGF2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 μ m.



Validation of FGF2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with FGF2 antibody (KVA00785, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of FGF2 expression in HepG2 cells using FGF2 antibody (KVA00785, 1:2,000). Green, isotype control; red, FGF2.