
Product Name: KD-Validated Fibroblast Growth Factor Receptor 3 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01404

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
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
Molecular Weight	Calculated MW: 87.7kDa

Antigen Information

Gene Name	FGFR3 FGFR3; Fibroblast Growth Factor Receptor 3; JTK4; CD333; CEK2; EC 2.7.10.1; FGFR-3; ACH;
Alternative Names	Achondroplasia, Thanatophoric Dwarfism; Fibroblast Growth Factor Receptor 3-S; Hydroxyaryl-Protein Kinase; Tyrosine Kinase JTK4; CD333 Antigen; HSFGR3EX; EC 2.7.10
Gene ID	2261.0
SwissProt ID	P22607
Immunogen	A synthesized peptide derived from human FGFR3

Background

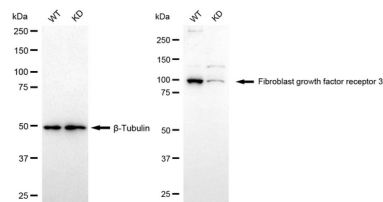
This gene encodes a member of the fibroblast growth factor receptor (FGFR) family, with its amino acid sequence being highly

conserved between members and among divergent species. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein would consist of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. This particular family member binds acidic and basic fibroblast growth hormone and plays a role in bone development and maintenance. Mutations in this gene lead to craniosynostosis and multiple types of skeletal dysplasia. [provided by RefSeq, Aug 2017]

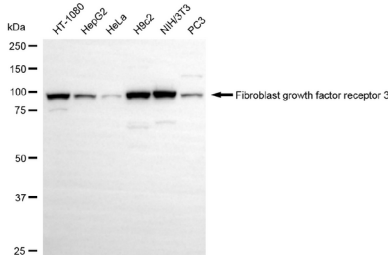
Research Area

Cardiovascular,Signal Transduction,Cancer,Stem Cells,Neuroscience

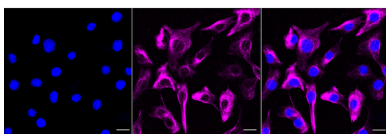
Image Data



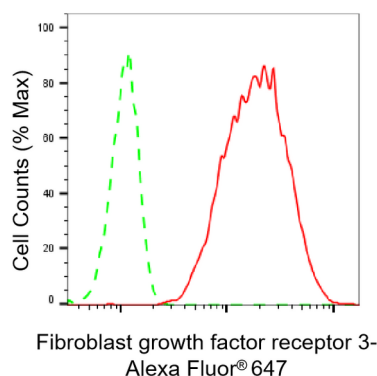
Western blotting analysis using fibroblast growth factor receptor 3 antibody (KVA01404). Fibroblast growth factor receptor 3 expression in wild-type (WT) and fibroblast growth factor receptor 3 (FGFR3) knockdown (KD) 293T cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with fibroblast growth factor receptor 3 antibody (KVA01404, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using fibroblast growth factor receptor 3 antibody (KVA01404). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with fibroblast growth factor receptor 3 antibody (KVA01404, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with Fibroblast growth factor receptor 3 antibody (KVA01404, 1:1,000). Nuclei were stained blue with DAPI; Fibroblast growth factor receptor 3 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.



Flow cytometric analysis of Fibroblast growth factor receptor 3 expression in C2C12 cells using Fibroblast growth factor receptor 3 antibody (KVA01404, 1:2,000). Green, isotype control; red, Fibroblast growth factor receptor 3.