

FGFR4 Antibody

Rabbit mAb Catalog # AP91325

Product Information

Application WB Primary Accession P22455

Reactivity Rat, Human, Mouse

Clonality Monoclonal

Other Names Fibroblast growth factor receptor 4; FGFR-4; CD334; FGFR4; JTK2; TKF;

IsotypeRabbit IgGHostRabbitCalculated MW87954

Additional Information

Dilution WB 1:500~1:2000

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human FGFR4

Description Receptor for acidic fibroblast growth factor. Does not bind to basic fibroblast

growth factor. Binds FGF19.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

Protein Information

Name FGFR4

Synonyms JTK2, TKF

Function Tyrosine-protein kinase that acts as a cell-surface receptor for fibroblast

growth factors and plays a role in the regulation of cell proliferation, differentiation and migration, and in regulation of lipid metabolism, bile acid

biosynthesis, glucose uptake, vitamin D metabolism and phosphate homeostasis. Required for normal down- regulation of the expression of CYP7A1, the rate-limiting enzyme in bile acid synthesis, in response to FGF19. Phosphorylates PLCG1 and FRS2. Ligand binding leads to the activation of several signaling cascades. Activation of PLCG1 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate. Phosphorylation of FRS2 triggers recruitment of GRB2, GAB1, PIK3R1 and SOS1, and mediates activation of RAS, MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling pathway, as well as of the AKT1 signaling pathway. Promotes SRC-dependent phosphorylation of the matrix protease MMP14 and

its lysosomal degradation. FGFR4 signaling is down-regulated by receptor internalization and degradation; MMP14 promotes internalization and

degradation of FGFR4. Mutations that lead to constitutive kinase activation or

impair normal FGFR4 inactivation lead to aberrant signaling.

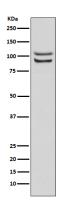
Cellular Location Cell membrane; Single-pass type I membrane protein. Endosome.

Endoplasmic reticulum. Note=Internalized from the cell membrane to recycling endosomes, and from there back to the cell membrane

Tissue Location Expressed in gastrointestinal epithelial cells, pancreas, and gastric and

pancreatic cancer cell lines

Images



Western blot analysis of FGFR4 expression in Raji cell lysate.

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