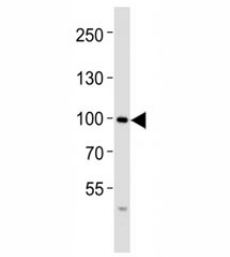
FGFR4 Antibody (F52728)

Catalog No.	Formulation	Size
F52728-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F52728-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P22455
Applications	1:1000
Limitations	This FGFR4 antibody is available for research use only.



Western blot analysis of lysate from SW480 cell line using FGFR4 antibody at 1:1000. Observed molecular weight: 88~125 kDa depending on phosphorylation and glycosylation level.

Description

Tyrosine-protein kinase that acts as 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.

Application Notes

Titration of the FGFR4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This FGFR4 antibody was produced from a rabbit immunized with a KLH conjugated synthetic peptide between 143-178 amino acids from the N-terminal region of human FGFR4.

Storage

Aliquot the FGFR4 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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