10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# FGFR4 Antibody
**Rabbit mAb**
**Catalog # AP91325**

## Specification

### FGFR4 Antibody - Product Information

| | |
|---|---|
| Application | **WB** |
| Primary Accession | P22455 |
| Reactivity | **Rat** |
| Clonality | **Monoclonal** |

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

| | |
|---|---|
| Isotype | **Rabbit IgG** |
| Host | **Rabbit** |
| Calculated MW | **87954 Da** |

### FGFR4 Antibody - Additional Information

| | |
|---|---|
| Dilution | **WB~~1:1000** |
| 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.** |

### FGFR4 Antibody - 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

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

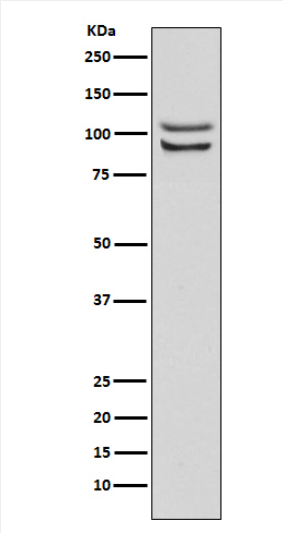
### Tissue Location
Expressed in gastrointestinal epithelial cells, pancreas, and gastric and pancreatic cancer cell lines

## FGFR4 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

## FGFR4 Antibody - Images




Western blot analysis of FGFR4 expression in Raji cell lysate.