

Anti-FGFR4 Rabbit Monoclonal Antibody

Catalog # ABO13805

Specification

Anti-FGFR4 Rabbit Monoclonal Antibody - Product Information

Application WB
Primary Accession P22455
Host Rabbit Isotype Rabbit IgG

Reactivity Rat, Human, Mouse

Clonality Monoclonal Format Liquid

Description

Anti-FGFR4 Rabbit Monoclonal Antibody . Tested in WB application. This antibody reacts with Human, Mouse, Rat.

Anti-FGFR4 Rabbit Monoclonal Antibody - Additional Information

Gene ID 2264

Other Names

Fibroblast growth factor receptor 4, FGFR-4, 2.7.10.1, CD334, FGFR4, JTK2, TKF

Calculated MW 87954 MW KDa

Application Details WB 1:500-1:2000

Subcellular Localization

Cell membrane; Single-pass type I membrane protein. Endosome. Endoplasmic reticulum. Internalized from the cell membrane to recycling endosomes, and from there back to the cell membrane.

Tissue Specificity

Expressed in gastrointestinal epithelial cells, pancreas, and gastric and pancreatic cancer cell lines..

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human FGFR4

Purification

Affinity-chromatography

Storage Store at -20°C for one year. For short term



storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-FGFR4 Rabbit Monoclonal 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 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

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Tissue Location

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Anti-FGFR4 Rabbit Monoclonal 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

Anti-FGFR4 Rabbit Monoclonal Antibody - Images



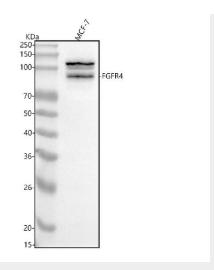


Figure 1. Western blot analysis of FGFR4 using anti-FGFR4 antibody (M00769). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human MCF-7 whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-FGFR4 antigen affinity purified monoclonal antibody (Catalog # M00769) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for FGFR4 at approximately 88 kDa. The expected band size for FGFR4 is at 88 kDa.