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Anti-FGFR4 Picoband Antibody

Catalog # ABO11884

Specification

Anti-FGFR4 Picoband Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	P22455
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Fibroblast growth factor receptor 4(FGFR4) detection. Tested with WB, IHC-P in Human.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-FGFR4 Picoband 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
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat
Western blot, 0.1-0.5 µg/ml, Human

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. .

Protein Name
Fibroblast growth factor receptor 4

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
E.coli-derived human FGFR4 recombinant protein (Position: L22-H206). Human FGFR4 shares 86%

and 84% amino acid (aa) sequences identity with mouse and rat FGFR4, respectively.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Sequence Similarities
Belongs to the protein kinase superfamily. Tyr protein kinase family. Fibroblast growth factor receptor subfamily.

Anti-FGFR4 Picoband 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
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

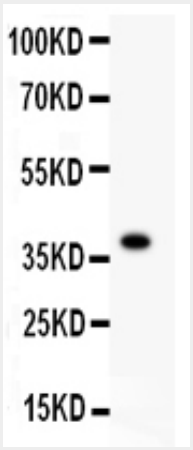
Anti-FGFR4 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

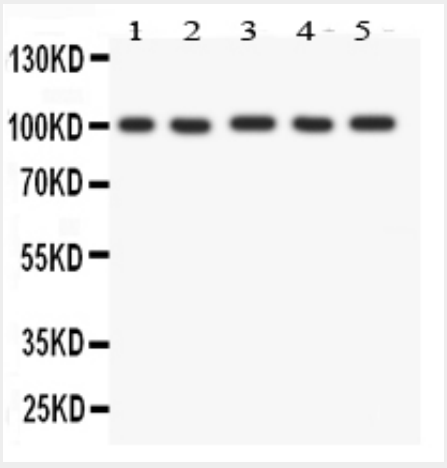
- Western Blot
- Blocking Peptides

- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-FGFR4 Picoband Antibody - Images



Anti- FGFR4 antibody, ABO11884, Western blottingAll lanes: Anti FGFR4 (ABO11884) at 0.5ug/mlWB: Recombinant Human FGFR4 Protein 0.5ngPredicted bind size: 39KDObserved bind size: 39KD



Anti- FGFR4 antibody, ABO11884, Western blottingAll lanes: Anti FGFR4 (ABO11884) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: PANC Whole Cell Lysate at 40ugLane 3: SGC Whole Cell Lysate at 40ugLane 4: COLO320 Whole Cell Lysate at 40ugLane 5: SW620 Whole Cell Lysate at 40ugPredicted bind size: 88KDObserved bind size: 100KD

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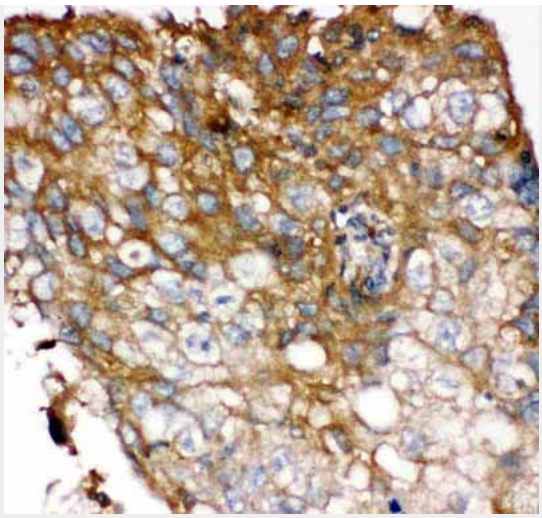

Anti- FGFR4 antibody, ABO11884, IHC(P)IHC(P): Human Lung Cancer Tissue

Anti-FGFR4 Picoband Antibody - Background

FGFR4(Fibroblast growth factor receptor 4), also known as CD334, is a protein that in humans is encoded by the FGFR4 gene. It is mapped to 5q35.2. The protein encoded by this gene is a member of the fibroblast growth factor receptor family, where amino acid sequence is highly conserved between members and throughout evolution. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. It is overexpressed in gynecological tumor samples, suggesting a role in breast and ovarian tumorigenesis.