

FGFR2 Antibody

Rabbit mAb Catalog # AP91154

Specification

FGFR2 Antibody - Product Information

Application WB, IP
Primary Accession P21802
Reactivity Rat

Clonality Monoclonal

Other Names

FGFR-2; K-sam; KGFR; CD332; FGFR2; BEK; KGFR; KSAM;

Isotype Rabbit IgG
Host Rabbit
Calculated MW 92025 Da

FGFR2 Antibody - Additional Information

Dilution WB~~1:1000

IP~~N/A

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human

FGFR2

Description Fibroblast growth factors (FGFs) produce

mitogenic and angiogenic effects in target cells by signaling through cell surface receptor tyrosine kinases. Receptor for acidic and basic fibroblast growth factors. Rabbit IgG in phosphate buffered saline.

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.

FGFR2 Antibody - Protein Information

Name FGFR2

Synonyms BEK, KGFR, KSAM

Function

Tyrosine-protein kinase that acts as a cell-surface receptor for fibroblast growth factors and plays an essential role in the regulation of cell proliferation, differentiation, migration and apoptosis, and in the regulation of embryonic development. Required for normal embryonic patterning, trophoblast function, limb bud development, lung morphogenesis, osteogenesis and skin development. Plays an essential role in the regulation of osteoblast differentiation, proliferation and apoptosis, and is required for normal skeleton development. Promotes cell proliferation in keratinocytes and immature osteoblasts, but promotes apoptosis in differentiated osteoblasts.



Phosphorylates PLCG1, FRS2 and PAK4. 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, PlK3R1 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. FGFR2 signaling is down-regulated by ubiquitination, internalization and degradation. Mutations that lead to constitutive kinase activation or impair normal FGFR2 maturation, internalization and degradation lead to aberrant signaling. Over-expressed FGFR2 promotes activation of STAT1.

Cellular Location

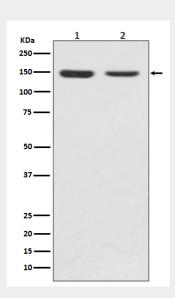
Cell membrane; Single-pass type I membrane protein. Golgi apparatus. Cytoplasmic vesicle. Note=Detected on osteoblast plasma membrane lipid rafts. After ligand binding, the activated receptor is rapidly internalized and degraded [Isoform 3]: Cell membrane; Single-pass type I membrane protein. Note=After ligand binding, the activated receptor is rapidly internalized and degraded [Isoform 13]: Secreted.

FGFR2 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

FGFR2 Antibody - Images



Western blot analysis of FGFR2 expression in (1) MCF-7 cell lysate; (2) Mouse brain lysate.