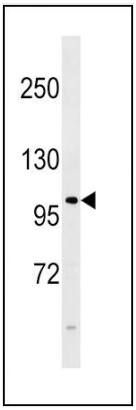
FGFR4 Antibody – Rabbit Polyclonal

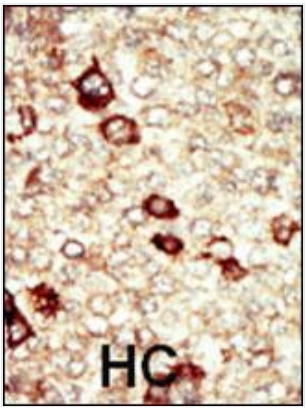
PRODUCT OVERVIEW

Product Name	FGFR4, Polyclonal Antibody
Full Product Name	FGFR4, NT (FGFR4, JTK2, TKF, Fibroblast growth factor receptor 4, CD334)
Product Gene Name	anti-FGFR4 antibody
Product Synonym Names	Anti -FGFR4, NT (FGFR4, JTK2, TKF, Fibroblast growth factor receptor 4, CD334)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein G affinity chromatography.
Specificity	Human
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	87,954 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (176513906..176525143). Location: 5q35.2
OMIM	134935
3D Structure	ModBase 3D Structure for P22455
Immunogen	FGFR4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 33~62 amino acids from the N-terminal region of human FGFR4.
Product Categories/Family for anti-FGFR4 antibody	Antibodies; Abs to CD Markers
Applications Tested/Suitable for anti-FGFR4 antibody	ELISA (EL/EIA), Western Blot (WB), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS)
Application Notes for anti-FGFR4 antibody	Suitable for use in Western Blot, Immunohistochemistry, Flow Cytometry, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500 Immunohistochemistry: 1:50-100 Flow Cytometry: 1:10-50

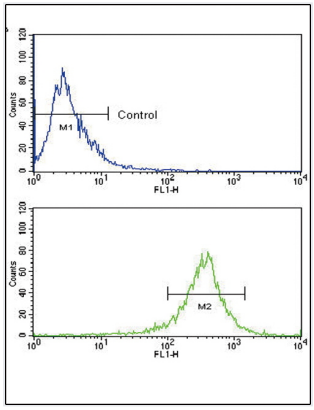
Related Product Information for anti-FGFR4 antibody	FGFR4 is a member of the fibroblast growth factor receptor family, where amino acid sequence is highly conserved between members and throughout evolution. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein would consist of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. The genomic organization of the gene, compared to members 1-3, encompasses 18 exons rather than 19 or 20. Although alternative splicing has been observed, there is no evidence that the C-terminal half of the IgIII domain of this protein varies between three alternate forms, as indicated for members 1-3. This particular family member preferentially binds acidic fibroblast growth factor and, although its specific function is unknown, it is overexpressed in gynecological tumor samples, suggesting a role in breast and ovarian tumorigenesis.
Other Notes	Small volumes of anti-FGFR4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FGFR4 purchase	MBS6012430 is an antibody targeting FGFR4. Also known as FGFR4, NT (FGFR4, JTK2, TKF, Fibroblast growth factor receptor 4, CD334). Reactive in Human. Host: Rabbit.



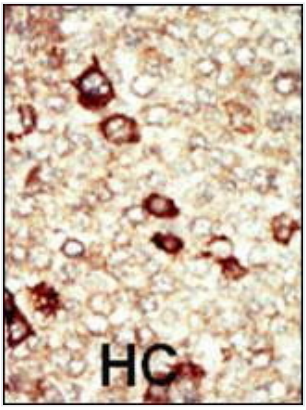
Western Blot (WB) of anti-FGFR4 antibody
Western Blot analysis in 293 cell line lysates (35ug/lane) using MBS6012430. This demonstrates that MBS6012430 detected the FGFR4 protein (arrow).



Immunohistochemistry (IHC) of anti-FGFR4 antibody
Immunohistochemistry analysis in formalin-fixed and paraffin-embedded human cancer tissue reacted with the MBS6012430, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining.



Testing Data of anti-FGFR4 antibody



Immunofluorescence (IF) of anti-FGFR4 antibody
Fluorescent confocal image of HeLa cells stained with MBS6012430. HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with MBS6012430 (1:200, 2 hours at RT). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1 hour). Nuclei were counterstained with Hoechst 33342 (blue) (10ug/ml, 5 min). Note the highly specific localization of the FGFR4 mainly to the nucleus, supported by Human Protein Atlas Data

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FGFR4. It may not necessarily be applicable to this product.

NCBI GI #	47524177

NCBI GeneID	2264
NCBI Accession #	NP_075252.2
UniProt Primary Accession #	P22455
UniProt Secondary Accession #	O43785; Q14309; Q71TW8; Q8TDA0
UniProt Related Accession #	P22455; AAB25788
GenBank Nucleotide #	NM_022963.2
NCBI Official Full Name	fibroblast growth factor receptor 4 isoform 2
NCBI Official Synonym Full Names	fibroblast growth factor receptor 4
NCBI Official Symbol	FGFR4
NCBI Official Synonym Symbols	TKF; JTK2; CD334
UniProt Protein Name	Fibroblast growth factor receptor 4
Protein Family	Fibroblast growth factor receptor
UniProt Gene Name	FGFR4
UniProt Synonym Gene Names	JTK2; TKF; FGFR-4
UniProt Entry Name	FGFR4_HUMAN
NCBI Protein Information	fibroblast growth factor receptor 4; FGFR-4; tyrosylprotein kinase; protein-tyrosine kinase; hydroxyaryl-protein kinase; tyrosine kinase related to fibroblast growth factor receptor
NCBI Summary for FGFR4	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. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein would consist of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. The genomic organization of this gene, compared to members 1-3, encompasses 18 exons rather than 19 or 20. Although alternative splicing has been observed, there is no evidence that the C-terminal half of the IgIII domain of this protein varies between three alternate forms, as indicated for members 1-3. This particular family member preferentially binds acidic fibroblast growth factor and, although its specific function is unknown, it is overexpressed in gynecological tumor samples, suggesting a role in breast and ovarian tumorigenesis. [provided by RefSeq, Jul 2008]

UniProt Comments for FGFR4	FGFR4: a tyrosine-kinase receptor 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 the MAP kinase and AKT signaling pathways. 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. Two isoforms of the human protein are formed by alternative splicing. This description may include information from UniProtKB Protein type: Membrane protein, integral; Kinase, protein; Protein kinase, tyrosine (receptor); Protein kinase, TK; EC 2.7.10.1; TK group; FGFR family Chromosomal Location of Human Ortholog: 5q35.2 Cellular Component: nucleoplasm; Golgi apparatus; transport vesicle; endoplasmic reticulum; integral to plasma membrane; cytoplasm; extracellular region; plasma membrane; intercellular junction; endosome Molecular Function: heparin binding; protein binding; fibroblast growth factor binding; fibroblast growth factor receptor activity; protein-tyrosine kinase activity; ATP binding Biological Process: epidermal growth factor receptor signaling pathway; cell migration; regulation of lipid metabolic process; fibroblast growth factor receptor signaling pathway; peptidyl-tyrosine phosphorylation; phosphoinositide-mediated signaling; nerve growth factor receptor signaling pathway; positive regulation of proteolysis; protein amino acid autophosphorylation; positive regulation of metalloenzyme activity; glucose homeostasis; induction of an organ; positive regulation of cell proliferation; insulin receptor signaling pathway; innate immune response; phosphate ion homeostasis
Research Articles on FGFR4	**1.** Data show that the allele types of ECRG1 were Arg/Arg (54.2%), Arg/Gln (45.8%) and Gln/Gln (0.00%), and the allele types of FGFR4 amino acid 388 were Arg/Arg (8.3%), Arg/Gly (54.2%) and Gly/Gly (37.5%).
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