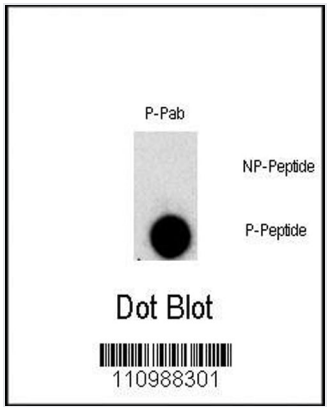
FGFR1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FGFR1, Polyclonal Antibody
Full Product Name	FGFR1, phosphorylated (Tyr307) (Basic Fibroblast Growth Factor Receptor 1, FGFR-1, bFGF-R, Proto-oncogene c-Fgr, Fms-like Tyrosine Kinase 2, FLT-2, CD331, FGFBR, FLG, FLT2)
Product Gene Name	anti-FGFR1 antibody
Product Synonym Names	Anti -FGFR1, phosphorylated (Tyr307) (Basic Fibroblast Growth Factor Receptor 1, FGFR-1, bFGF-R, Proto-oncogene c-Fgr, Fms-like Tyrosine Kinase 2, FLT-2, CD331, FGFBR, FLG, FLT2)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by immunoaffinity chromatography.
Specificity	Recognizes human FGFR1 when phosphorylated at Tyr307.
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 at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	91,868 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (38268656..38326352, complement). Location: 8p12
OMIM	101600
3D Structure	ModBase 3D Structure for P11362
Immunogen	Synthetic phosphopeptide corresponding to amino acid residues surrounding Tyr307 of human FGFR1 (KLH).
Product Categories/Family for anti-FGFR1 antibody	Antibodies; Abs to Receptors
Applications Tested/Suitable for anti-FGFR1 antibody	ELISA (EL/EIA), Western Blot (WB), Gel Shift Assay (GS/EMSA)
Application Notes for anti-FGFR1 antibody	Suitable for use in ELISA and Dot Blot. Dilution: ELISA: 1:1,000 Dot Blot: 1:100-1:500
Related Product Information for anti-FGFR1 antibody	FGFR1 is a member of the fibroblast growth factor receptor (FGFR) 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 consists 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. This particular family member binds both acidic and basic fibroblast growth factors and is involved in limb induction. Mutations in this gene have been associated with Pfeiffer syndrome, Jackson-Weiss syndrome, Antley-Bixler syndrome, osteoglophonic dysplasia, and autosomal dominant Kallmann syndrome 2. Chromosomal aberrations involving this gene are associated with stem cell myeloproliferative disorder and stem cell leukemia lymphoma syndrome.

Other Notes	Small volumes of anti-FGFR1 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 FGFR1 purchase	MBS630697 is an antibody targeting FGFR1. Also known as FGFR1, phosphorylated (Tyr307) (Basic Fibroblast Growth Factor Receptor 1, FGFR-1, bFGF-R, Proto-oncogene c-Fgr, Fms-like Tyrosine Kinase 2, FLT-2, CD331, FGFBR, FLG, FLT2). Reactive in Human. Host: Rabbit.



Dot Blot (DB) of anti-FGFR1 antibody
Dot blot analysis of Phospho-FGFR1-Y307 polyclonal antibody on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentration was 0.5ug per ml. P-Pab: phospho-antibody; P-Peptide: phospho-peptide; NP-Peptide: non-phospho-peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FGFR1. It may not necessarily be applicable to this product.

NCBI GI #	21955340
NCBI GeneID	2260
UniProt Primary Accession #	P11362
UniProt Secondary Accession #	P17049; Q02063; Q02065; Q14306; Q14307; Q53H63; Q5BJG2; Q8N685; A8K6T9; A8K8V5; C1KBH8
UniProt Related Accession #	P11362; Q53G05; Q59H40; Q7Z2S2
NCBI Official Full Name	FGFR1 protein
NCBI Official Synonym Full Names	fibroblast growth factor receptor 1
NCBI Official Symbol	FGFR1
NCBI Official Synonym Symbols	CEK; FLG; OGD; FLT2; KAL2; BFGFR; CD331; FGFBR; FLT-2; HBGFR; N-SAM; FGFR-1; FLJ99988; bFGF-R-1
UniProt Protein Name	Basic fibroblast growth factor receptor 1
UniProt Synonym Protein Names	Fms-like tyrosine kinase 2; FLT-2; Proto-oncogene c-Fgr
Protein Family	Fibroblast growth factor receptor
UniProt Gene Name	FGFR1
UniProt Synonym Gene Names	FGFBR; FLG; FLT2
UniProt Entry Name	FGFR1_HUMAN
NCBI Protein Information	basic fibroblast growth factor receptor 1; OTTHUMP00000190874; OTTHUMP00000190875; OTTHUMP00000190876; OTTHUMP00000190877; OTTHUMP00000190879; OTTHUMP00000190880; OTTHUMP00000190881; OTTHUMP00000190885; proto-oncogene c-Fgr; FMS-like tyrosine kinase 2; hydroxyaryl-protein kinase; fms-related tyrosine kinase 2; heparin-binding growth factor receptor

NCBI Summary for FGFR1	The protein encoded by this gene is a member of the fibroblast growth factor receptor (FGFR) 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 consists 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. This particular family member binds both acidic and basic fibroblast growth factors and is involved in limb induction. Mutations in this gene have been associated with Pfeiffer syndrome, Jackson-Weiss syndrome, Antley-Bixler syndrome, osteoglophonic dysplasia, and autosomal dominant Kallmann syndrome 2. Chromosomal aberrations involving this gene are associated with stem cell myeloproliferative disorder and stem cell leukemia lymphoma syndrome. Alternatively spliced variants which encode different protein isoforms have been described; however, not all variants have been fully characterized. [provided by RefSeq]
UniProt Comments for FGFR1	FGFR1: a receptor tyrosine kinase of the highly-conserved fibroblast growth factor receptor (FGFR). Binds both acidic and basic fibroblast growth factors and is involved in limb induction. Point mutations cause Pfeffer syndrome (finger and toe malformations and other skeletal errors) and dominant Kallmann syndrome 2. Stem cell leukemia lymphoma syndrome (SCLL) may be caused by a t(8;13)(p12;q12) translocation that fuses a zinc finger gene, ZNF198, to FGFR1. Various myeloproliferative disorders have been linked to translocations that fuse FGFR1 to FOP, FIM, CEP1 or the atypical kinase, Bcr. Inhibitor: SU5402. 20 isoforms of the human protein produced by alternative splicing have been described. Protein type: Oncoprotein; Kinase, protein; Membrane protein, integral; Protein kinase, tyrosine (receptor); Protein kinase, TK; EC 2.7.10.1; TK group; FGFR family Chromosomal Location of Human Ortholog: 8p11.23-p11.22 Cellular Component: integral to plasma membrane; cytoplasmic membrane-bound vesicle; extracellular region; integral to membrane; plasma membrane; nucleus; cytosol; receptor complex Molecular Function: heparin binding; identical protein binding; protein binding; fibroblast growth factor binding; protein homodimerization activity; fibroblast growth factor receptor activity; protein-tyrosine kinase activity; ATP binding Biological Process: paraxial mesoderm development; axon guidance; peptidyl-tyrosine phosphorylation; nerve growth factor receptor signaling pathway; protein amino acid autophosphorylation; cell maturation; neuron migration; middle ear morphogenesis; negative regulation of transcription from RNA polymerase II promoter; protein amino acid phosphorylation; positive regulation of MAP kinase activity; sensory perception of sound; positive regulation of MAPKKK cascade; ureteric bud development; induction of an organ; regulation of cell differentiation; positive regulation of cell proliferation; midbrain development; positive regulation of mesenchymal cell proliferation; chondrocyte differentiation; angiogenesis; skeletal development; positive regulation of cardiac muscle cell proliferation; embryonic limb morphogenesis; epidermal growth factor receptor signaling pathway; cell migration; inner ear morphogenesis; chordate embryonic development; phosphoinositide-mediated signaling; fibroblast growth factor receptor signaling pathway; transcription, DNA-dependent; in utero embryonic development; outer ear morphogenesis; MAPKKK cascade; positive regulation of cell cycle; positive regulation of phosphoinositide 3-kinase cascade; neuroblast division in the ventricular zone; mesenchymal cell differentiation; skeletal morphogenesis; insulin receptor signaling pathway; auditory receptor cell development; innate immune response; positive regulation of neuron differentiation; regulation of lateral mesodermal cell fate specification Disease: Pfeiffer Syndrome; Hypogonadotropic Hypogonadism 2 With Or Without Anosmia; Jackson-weiss Syndrome; Trigonocephaly 1; Osteoglophonic Dysplasia
Research Articles on FGFR1	**1.** FGFR1 is highly expressed in renal cell carcinoma patients
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