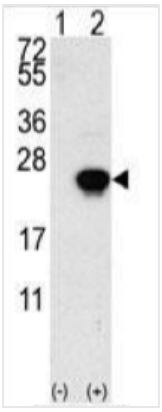
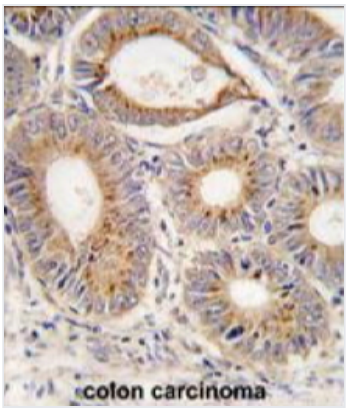
FGF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

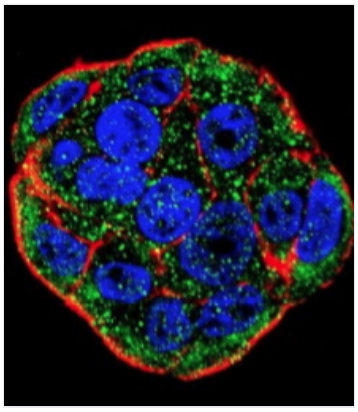
Product Name	FGF1, Polyclonal Antibody
Full Product Name	FGF1, NT (Heparin-binding Growth Factor 1, HBGF-1, Acidic Fibroblast Growth Factor, aFGF, Beta-endothelial Cell Growth Factor, ECGF-beta, FGFA) (MaxLight 650)
Product Gene Name	anti-FGF1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A/G Affinity Chromatography.
Specificity	Recognizes human FGF1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	15.9kDa (141aa), confirmed by MALDI-TOF.
OMIM	131220
3D Structure	ModBase 3D Structure for P05230
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 5-30 in the N-terminal region of human FGF1, UniProt Accession #P05230. Species sequence homology: porcine
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-FGF1 antibody	Antibodies; Growth Factors; Cytokines
Applications Tested/Suitable for anti-FGF1 antibody	Immunohistochemistry (IHC) Paraffin, FLISA, Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-FGF1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-FGF1 antibody	MBS6476219 is an antibody targeting FGF1. Also known as FGF1, NT (Heparin-binding Growth Factor 1, HBGF-1, Acidic Fibroblast Growth Factor, aFGF, Beta-endothelial Cell Growth Factor, ECGF-beta, FGFA) (MaxLight 650). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-FGF1 antibody	1. Fukushima, S., Int. J. Oncol. 32(2), 467-473 (2008). 2. Riley, B.M.Am. J. Med. Genet. A 143(24), 3228-3234 (2007). 3. Tomaszewski, M., Circulation 116(17), 1915-1924 (2007).
Other Notes	Small volumes of anti-FGF1 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.



Western Blot (WB) of anti-FGF1 antibody
Western Blot analysis of FGF1 (arrow) in 293 cell lysates (2 ug/lane) using MBS641357 Lane 1: nontransfected Lane 2: transiently transfected with the FGF1 gene



Immunohistochemistry (IHC) of anti-FGF1 antibody
Immunohistochemistry analysis in formalin-fixed and paraffin-embedded human colon carcinoma tissue usingMBS641357, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of MBS641357 for Immunohistochemistry.



Immunofluorescence (IF) of anti-FGF1 antibody
Confocal immunofluorescent analysis of WiDr cell using MBS641357 followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red). DAPI was used to stain the cell nuclear (blue).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FGF1. It may not necessarily be applicable to this product.

NCBI GI #	4503697
NCBI GeneID	2246
NCBI Accession #	NP_000791
UniProt Primary Accession #	P05230
UniProt Secondary Accession #	P07502; Q16588; B2R5T0; D3DQF2
UniProt Related Accession #	P05230
GenBank Nucleotide #	NM_000800.4
NCBI Official Full Name	fibroblast growth factor 1 isoform 1
NCBI Official Synonym Full Names	fibroblast growth factor 1 (acidic)
NCBI Official Symbol	FGF1
NCBI Official Synonym Symbols	AFGF; ECGF; FGFA; ECGFA; ECGFB; FGF-1; HBGF1; HBGF-1; GLIO703; ECGF-beta; FGF-alpha
UniProt Protein Name	Fibroblast growth factor 1
UniProt Synonym Protein Names	Acidic fibroblast growth factor; aFGF; Endothelial cell growth factor; ECGF; Heparin-binding growth factor 1

Protein Family	Fibroblast growth factor
UniProt Gene Name	FGF1
UniProt Synonym Gene Names	FGFA; FGF-1; aFGF; ECGF; HBGF-1
UniProt Entry Name	FGF1_HUMAN
NCBI Protein Information	fibroblast growth factor 1; beta-endothelial cell growth factor; endothelial cell growth factor, alpha; endothelial cell growth factor, beta; heparin-binding growth factor 1
NCBI Summary for FGF1	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein functions as a modifier of endothelial cell migration and proliferation, as well as an angiogenic factor. It acts as a mitogen for a variety of mesoderm- and neuroectoderm-derived cells in vitro, thus is thought to be involved in organogenesis. Multiple alternatively spliced variants encoding different isoforms have been described. [provided by RefSeq, Jan 2009]
UniProt Comments for FGF1	FGF1: Plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. Functions as potent mitogen in vitro. Monomer. Homodimer. Interacts with FGFR1, FGFR2, FGFR3 and FGFR4. Affinity between fibroblast growth factors (FGFs) and their receptors is increased by heparan sulfate glycosaminoglycans that function as coreceptors. Found in a complex with FGFBP1, FGF1 and FGF2. Interacts with FGFBP1. Part of a Cu(2+)-dependent multiprotein aggregate containing FGF1, S100A13 and SYT1. Interacts with SYT1. Interacts with S100A13. Belongs to the heparin-binding growth factors family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Cell development/differentiation; Cytokine Chromosomal Location of Human Ortholog: 5q31 Cellular Component: nucleoplasm; extracellular space; proteinaceous extracellular matrix; extracellular region; nucleolus; cell cortex; cytosol Molecular Function: heparin binding; protein binding; growth factor activity; Hsp70 protein binding; fibroblast growth factor receptor binding Biological Process: epidermal growth factor receptor signaling pathway; anatomical structure morphogenesis; phosphoinositide-mediated signaling; fibroblast growth factor receptor signaling pathway; nerve growth factor receptor signaling pathway; multicellular organismal development; positive regulation of cholesterol biosynthetic process; signal transduction; positive regulation of MAP kinase activity; positive regulation of angiogenesis; induction of an organ; positive regulation of cell division; positive regulation of cell proliferation; insulin receptor signaling pathway; innate immune response; positive regulation of transcription from RNA polymerase II promoter; angiogenesis; positive regulation of epithelial cell proliferation; lung development; positive regulation of cell migration
Research Articles on FGF1	**1.** FGF1 gene polymorphism is associated with a lower risk of developing cleft palate or cleft lip in Iranian patients. clet palatot cleft lip
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