FGF5 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	FGF5, Monoclonal Antibody
Full Product Name	FGF5 (Fibroblast Growth Factor 5, FGF-5, Heparin-binding Growth Factor 5, HBGF-5, Smag-82) (MaxLight 490)
Product Gene Name	anti-FGF5 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1B4
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human FGF5.
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 amo to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of proc centrifuge the original vial prior to removing the cap.
Molecular Weight	13,006 Da
OMIM	M37825 mRNA
3D Structure	ModBase 3D Structure for P12034
Immunogen	Partial recombinant corresponding to aa159-268 from human FGF5 (NP_004455.2) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	DCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHISTHFLPRFKQSEQPELSFTVTVPEKKKPPSPIKPKIPLSAPRKNTNSV
Conjugate	MaxLight490
Product Categories/Family for anti-FGF5 antibody	Antibodies; Growth Factors; Cytokines
Applications Tested/Suitable for anti-FGF5 antibody	FLISA, Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-FGF5 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-FGF5 antibody	Plays an important role in the regulation of cell proliferation and cell differentiation. Required for normal regulation of the hair growth cycle. Functions as of hair elongation by promoting progression from anagen, the growth phase of the hair follicle, into catagen the apoptosis-induced regression phase.

Other Notes	Small volumes of anti-FGF5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa 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 may apply.
Searchable Terms for FGF5 purchase	MBS6200826 is an antibody targeting FGF5. Also known as FGF5 (Fibroblast Growth Factor 5, FGF-5, Heparin-binding Growth Factor 5, HBGF-5, Sm (MaxLight 490). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FGF5. It may not necessarily be applicable to this product.

NCBI GI #	73486655
NCBI GeneID	2250
NCBI Accession #	NP_004455.2
UniProt Primary Accession #	P12034
UniProt Secondary Accession #	O75846; Q3Y8M3; Q8NF90; B2R554
UniProt Related Accession #	P12034
GenBank Nucleotide #	NM_004464
NCBI Official Full Name	fibroblast growth factor 5 isoform 1
NCBI Official Synonym Full Names	fibroblast growth factor 5
NCBI Official Symbol	FGF5
NCBI Official Synonym Symbols	HBGF-5; TCMGLY; Smag-82
UniProt Protein Name	Fibroblast growth factor 5
UniProt Synonym Protein Names	Heparin-binding growth factor 5; HBGF-5; Smag-82
Protein Family	Fibroblast growth factor
UniProt Gene Name	FGF5
UniProt Synonym Gene Names	FGF-5; HBGF-5
NCBI Protein Information	fibroblast growth factor 5
NCBI Summary for FGF5	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 gene was identified as an oncogene, which confers transforming potential when transfected into mammalian cells. Targeted disruption of the homolog of this gene in mouse resulted in the phenotype of abnormally long hair, which suggested a function as an inhibitor of hair elongation. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

UniProt Comments for FGF5	FGF5: Plays an important role in the regulation of cell proliferation and cell differentiation. Required for normal regulation of the hair growth cycle. Functions as an inhibitor of hair elongation by promoting progression from anagen, the growth phase of the hair follicle, into catagen the apoptosis-induced regression phase. Belongs to the heparin-binding growth factors family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cytokine; Oncoprotein; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 4q21.21 Cellular Component: extracellular region; extracellular space Molecular Function: 1-phosphatidylinositol-3-kinase activity; fibroblast growth factor receptor binding; phosphatidylinositol-4,5-bisphosphate 3-kinase activity; protein-tyrosine kinase activity; Ras guanyl-nucleotide exchange factor activity Biological Process: cell proliferation; cell-cell signaling; fibroblast growth factor receptor signaling pathway; MAPKKK cascade; nervous system development; phosphoinositide-mediated signaling; positive regulation of cell proliferation; regulation of phosphoinositide 3-kinase cascade Disease: Trichomegaly
Research Articles on FGF5	**1.** These findings collectively demonstrate a tumor suppressor role of miR-188-5p in HCC progression via targeting FGF5
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