Fibroblast Growth Factor 2, Basic (FGF2) Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	Fibroblast Growth Factor 2, Basic (FGF2), Monoclonal Antibody
Full Product Name	Cy3 Linked Monoclonal Antibody to Fibroblast Growth Factor 2, Basic (FGF2)
Product Gene Name	anti-FGF2 antibody
Product Synonym Names	FGF2/Fibroblast Growth Factor 2, Basic; BFGF; BFGF; FGFB; HBGH2; Basic Fibroblast Growth Factor; Heparinbinding growth factor 2
Clonality	Monoclonal
Isotype	IgG1 Kappa
Clone Number	C6
Host	Mouse
Species Reactivity	Human, Pig
Form/Format	Liquid; 0.01M PBS, pH7.4, containing 0.05% Proclin300, 50% glycerol.
Purity/Purification	Protein A + Protein G affinity chromatography
Concentration	>=1mg/mL (Please refer to the vial label for the specific concentration.) (lot specific)
Specificity	The antibody is a mouse monoclonal antibody raised against FGF2. It has been selected for its ability to recognize FGF2 in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 2 degree C to 8 degree C for frequent use, 20 degree C for 24 months The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: FGF2 Clone #C6 (MBS2138573) Cy3 Conjugated Antibody: FGF2 Clone #C6 (MBS2129958)
Molecular Weight	30,770 Da
OMIM	134920
3D Structure	ModBase 3D Structure for P09038
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen Type	Prokaryotic Recombinant proteins/RP
Sequence of Immunogen	Phe159~Ser288
Conjugation	Cy3
Product Categories/Family for anti-FGF2 antibody	Cytokine; Tumor immunity; Infection immunity; Primary, Cy11686 labeled
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-FGF2 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)

Application Notes for anti-FGF2 antibody	WB: 0.52ug/mL IHC: 520ug/mL ICC: 520ug/mL
Related Product Information for anti-FGF2 antibody	MBS2129958 is an antibody targeting FGF2. Also known as Cy3 Linked Monoclonal Antibody to Fibroblast Growth Factor 2, Basic (FGF2). Reactive in Human, Pig. Host: Mouse.
Other Notes	Small volumes of anti-FGF2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FGF2. It may not necessarily be applicable to this product.

NCBI GI #	56068041
NCBI GeneID	2247
NCBI Accession #	AAV70487.1
UniProt Primary Accession #	P09038
UniProt Secondary Accession #	O00527; P78443; Q16443; Q5PY50; Q7KZ11; Q7KZ72; Q9UC54; Q9UCS5; Q9UCS6; A4LBB8
UniProt Related Accession #	P09038
NCBI Official Full Name	basic fibroblast growth factor, partial
NCBI Official Synonym Full Names	fibroblast growth factor 2 (basic)
NCBI Official Symbol	FGF2
NCBI Official Synonym Symbols	BFGF; FGFB; FGF-2; HBGF-2
UniProt Protein Name	Fibroblast growth factor 2
UniProt Synonym Protein Names	Basic fibroblast growth factor; bFGF; Heparin-binding growth factor 2
Protein Family	Fibroblast growth factor
UniProt Gene Name	FGF2
UniProt Synonym Gene Names	FGFB; FGF-2; bFGF; HBGF-2
UniProt Entry Name	FGF2_HUMAN
NCBI Protein Information	fibroblast growth factor 2; prostatropin; heparin-binding growth factor 2; basic fibroblast growth factor bFGF
NCBI Summary for FGF2	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from non-AUG (CUG) and AUG initiation codons, resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF. [provided by RefSeq, Jul 2008]

UniProt Comments for FGF2	FGF2: 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. Interacts with CSPG4, FGFBP1 and TEC. Found in a complex with FGFBP1, FGF1 and FGF2. Expressed in granulosa and cumulus cells. Expressed in hepatocellular carcinoma cells, but not in non- cancerous liver tissue. Belongs to the heparin-binding growth factors family. 4 isoforms of the human protein are produced by alternative initiation. Protein type: Activator; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 4q26 Cellular Component: extracellular space; extracellular region; nucleus Molecular Function: heparin binding; protein binding; growth factor activity; ligand-dependent nuclear receptor transcription coactivator activity; cytokine activity; chemoattractant activity; fibroblast growth factor receptor binding Biological Process: extracellular matrix organization and biogenesis; wound healing; nerve growth factor receptor signaling pathway; somatic stem cell maintenance; activation of MAPK activity; positive regulation of transcription, DNA-dependent; signal transduction; chemotaxis; hyaluronan catabolic process; growth factor dependent regulation of satellite cell proliferation; positive regulation of MAP kinase activity; positive chemotaxis; positive regulation of cell proliferation; embryonic morphogenesis; positive regulation of cardiac muscle cell proliferation; epidermal growth factor receptor signaling pathway; nervous system development; phosphoinositide-mediated signaling; fibroblast growth factor receptor signaling pathway; positive regulation of cell fate specification; positive regulation of blood vessel endothelial cell migration; positive regulation of phosphoinositide 3-kinase activity; negative regulation of blood vessel endothelial cell migration; regulation of angiogenesis; organ morphogenesis; positive regulation of angiogenesis; cell migration during sprouting angiogenesis; ureteric bud branching; positive regulation of cell division; release of sequestered calcium ion into cytosol; Ras protein signal transduction; insulin receptor signaling pathway; phosphatidylinositol biosynthetic process; innate immune response; positive regulation of transcription from RNA polymerase II promoter; positive regulation of endothelial cell proliferation; inositol phosphate biosynthetic process
Research Articles on FGF2	**1.** Topical secretoneurin gene therapy accelerates diabetic wound healing by interaction between heparan-sulfate proteoglycans and basic FGF.
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