FGF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FGF1, Polyclonal Antibody
Full Product Name	FGF1 (Acidic fibroblast growth factor) (HRP)
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. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human FGF1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	17,460 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (141971743..142077635, complement). Location: 5q31
OMIM	131220
3D Structure	ModBase 3D Structure for P05230
Immunogen	Recombinant protein corresponding to human FGF1, expressed in E. coli (Position: F16-D155). Species sequence homology: mouse and rat, 96%
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-FGF1 antibody	Antibodies; Growth Factors; Cytokines
Applications Tested/Suitable for anti-FGF1 antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB), ELISA (EIA)
Application Notes for anti-FGF1 antibody	IHC-P: Boiling paraffin sections in 10mM citrate buffer, pH 6 for 20 min is required for the staining of formalin/paraffin sections. Applications are based on unconjugated antibody.
Related Product Information for anti-FGF1 antibody	MBS6404274 is an antibody targeting FGF1. Also known as FGF1 (Acidic fibroblast growth factor) (HRP). Reactive in Human. Host: Rabbit.

Product References and Citations for anti-FGF1 antibody	1. Le Beau, M. M.; Espinosa, R., III; Neuman, W. L.; Stock, W.; Roulston, D.; Larson, R. A.; Keinanen, M.; Westbrook, C. A.: Cytogenetic and molecular delineation of the smallest commonly deleted region of chromosome 5 in malignant myeloid diseases. Proc. Nat. Acad. Sci. 90: 5484-5488, 1993. 2. Mergia, A.; Eddy, R.; Abraham, J. A.; Fiddes, J. C.; Shows, T. B.: The genes for basic and acidic fibroblast growth factors are on different human chromosomes. Biochem. Biophys. Res. Commun. 138: 644-651, 1986. 3. Burgess, W. H.; Mehlman, T.; Marshak, D. R.; Fraser, B. A.; Maciag, T.: Structural evidence that endothelial cell growth factor beta is the precursor of both endothelial cell growth factor alpha and acidic fibroblast growth factor. Proc. Nat. Acad. Sci. 83: 7216-7220, 1986.
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.

ADDITIONAL DETAILS

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

NCBI GI #	13236891
NCBI GeneID	2246
NCBI Accession #	AAB29057.2
UniProt Primary Accession #	P05230
UniProt Secondary Accession #	P07502; Q16588; B2R5T0; D3DQF2
UniProt Related Accession #	P05230
NCBI Official Full Name	acidic fibroblast growth factor
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; heparin-binding growth factor 1; beta-endothelial cell growth factor; endothelial cell growth factor, beta; endothelial cell growth factor, alpha
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.** The expression of FGF-1 in the in vitro fertilization (IVF) implantation failure group is less than in the fertile group, which suggests that growth factors such as FGF-1 are important maternal factors effecting implantation
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/fgf1/6404274