Fibroblast Growth Factor 9, Basic (FGF9) ELISA Kit for Rat

PRODUCT OVERVIEW

Product Name	Fibroblast Growth Factor 9, Basic (FGF9), ELISA Kit
Full Product Name	Rat Fibroblast Growth Factor 9, Basic (FGF9) ELISA Kit
Product Gene Name	FGF9 elisa kit
Species Reactivity	Rat
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	23,441 Da
OMIM	gene 612961
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for FGF9 elisa kit	MBS267350 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Fibroblast Growth Factor 9, Basic (FGF9) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing FGF9. The ELISA analytical biochemical technique of the MBS267350 kit is based on FGF9 antibody-FGF9 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect FGF9 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, FGF9. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of FGF9 elisa kit 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 FGF9. It may not necessarily be applicable to this product.

NCBI GI #	4503707
NCBI GeneID	2254
NCBI Accession #	NP_002001.1
UniProt Secondary Accession #	Q3SY32; A8K427
UniProt Related Accession #	P31371
GenBank Nucleotide #	NM_002010.2
NCBI Official Full Name	fibroblast growth factor 9
NCBI Official Synonym Full Names	fibroblast growth factor 9
NCBI Official Symbol	FGF9
NCBI Official Synonym Symbols	GAF; FGF-9; SYNS3; HBFG-9; HBGF-9
UniProt Protein Name	Fibroblast growth factor 9
UniProt Synonym Protein Names	Glia-activating factor; GAF; Heparin-binding growth factor 9; HBGF-9
Protein Family	Fibroblast growth factor
UniProt Gene Name	FGF9

UniProt Synonym Gene Names	FGF-9; GAF; HBGF-9
UniProt Entry Name	FGF9_HUMAN
NCBI Protein Information	fibroblast growth factor 9; heparin-binding growth factor 9; fibroblast growth factor 9 (glia-activating factor)
NCBI Summary for FGF9	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 was isolated as a secreted factor that exhibits a growth-stimulating effect on cultured glial cells. In nervous system, this protein is produced mainly by neurons and may be important for glial cell development. Expression of the mouse homolog of this gene was found to be dependent on Sonic hedgehog (Shh) signaling. Mice lacking the homolog gene displayed a male-to-female sex reversal phenotype, which suggested a role in testicular embryogenesis. [provided by RefSeq, Jul 2008]
UniProt Comments for FGF9	FGF9: Plays an important role in the regulation of embryonic development, cell proliferation, cell differentiation and cell migration. May have a role in glial cell growth and differentiation during development, gliosis during repair and regeneration of brain tissue after damage, differentiation and survival of neuronal cells, and growth stimulation of glial tumors. Defects in FGF9 are the cause of multiple synostoses syndrome type 3 (SYNS3). Multiple synostoses syndrome is an autosomal dominant condition characterized by progressive joint fusions of the fingers, wrists, ankles and cervical spine, characteristic facies and progressive conductive deafness. Belongs to the heparin-binding growth factors family. Protein type: Cytokine Chromosomal Location of Human Ortholog: 13q11-q12 Cellular Component: extracellular space; cytoplasm; extracellular region; basement membrane Molecular Function: heparin binding; growth factor activity; fibroblast growth factor receptor binding Biological Process: negative regulation of Wnt receptor signaling pathway; nerve growth factor receptor signaling pathway; embryonic skeletal development; negative regulation of transcription from RNA polymerase II promoter; signal transduction; positive regulation of vascular endothelial growth factor receptor signaling pathway; positive regulation of activin receptor signaling pathway; substantia nigra development; cell-cell signaling; positive regulation of MAPKKK cascade; protein import into nucleus; male sex determination; positive regulation of mesenchymal cell proliferation; positive regulation of cell proliferation; chondrocyte differentiation; positive regulation of smoothened signaling pathway; angiogenesis; embryonic gut development; regulation of timing of cell differentiation; positive regulation of cardiac muscle cell proliferation; embryonic limb morphogenesis; epidermal growth factor receptor signaling pathway; inner ear morphogenesis; fibroblast growth factor receptor signaling pathway; phosphoinositide-mediated signaling; male gonad development; osteoblast differentiation; positive regulation of cell division; insulin receptor signaling pathway; innate immune response; positive regulation of epithelial cell proliferation Disease: Multiple Synostoses Syndrome 3
Research Articles on FGF9	**1.** MAP3K1 mutations tilt the balance in the sex-determining pathways by downregulating SOX9 and FGF9.
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