



FGF-1 Rabbit mAb

Catalog No	YP-rAb-18217
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	FGF1
Protein Name	Fibroblast growth factor 1
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	FGF1 ; FGFA ; Fibroblast growth factor 1 ; FGF-1 ; Acidic fibroblast growth factor ; aFGF ; Endothelial cell growth factor ; ECGF ; Heparin-binding growth factor 1 ; HBGF-1
Observed Band	18kD
Calculated Molecular Weight	17kD
Cell Pathway	Secreted. Cytoplasm. Cytoplasm, cell cortex. Cytoplasm, cytosol. Nucleus. Lacks a cleavable signal sequence. Within the cytoplasm, it is transported to the cell membrane and then secreted by a non-classical pathway that requires Cu(2+) ions and S100A13. Secreted in a complex with SYT1 (By similarity). Binding of exogenous FGF1 to FGFR facilitates endocytosis followed by translocation of FGF1 across endosomal membrane into the cytosol. Nuclear import from the cytosol requires the classical nuclear import machinery, involving proteins KPNA1 and KPNB1, as well as LRRC59. .
Tissue Specificity	Predominantly expressed in kidney and brain. Detected at much lower levels in heart and skeletal muscle.
Function	The heparin-binding growth factors are angiogenic agents in vivo and are potent mitogens for a variety of cell types in vitro. There are differences in the tissue distribution and concentration of these 2 growth factors.,miscellaneous:This protein binds heparin, although less strongly than does bFGF.,similarity:Belongs





to the heparin-binding growth factors family.,subunit:Monomer. Binds FGFR2. Forms a ternary complex containing 2 molecules each of FGFR2 and FGF1 for 1 heparin molecule. Found in a complex with FGFBP1, FGF1 and FGF2. Interacts with FGFBP1.,

Background

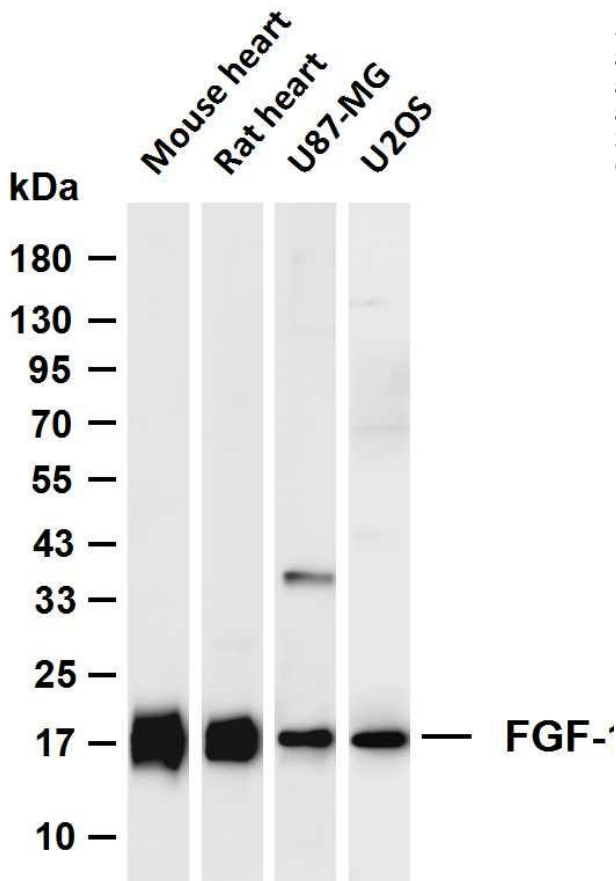
The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor 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],

matters needing attention

Avoid repeated freezing and thawing!

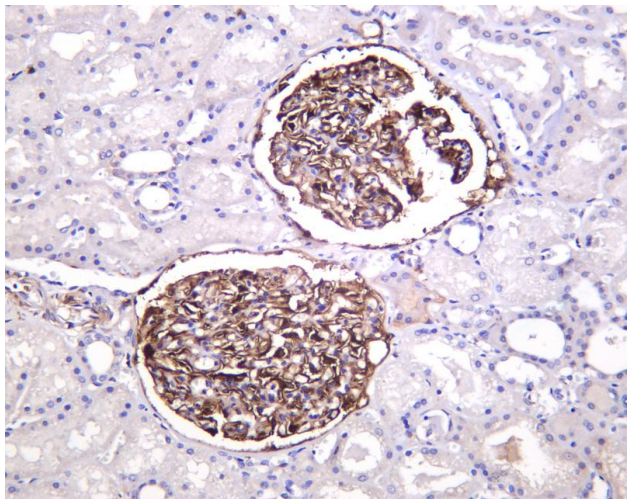
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-FGF-1 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: Mouse heart Lane 2: Rat heart Lane 3: U87-MG Lane 4: U2OS Predicted band size: 17kDa Observed band size: 18kDa





Human kidney was stained with anti-FGF-1 Rabbit antibody

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