SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Marker Primary Antibody]

Rabbit Anti-FGF1/Biotin Conjugated antibody

Catalog Number: SL23483R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-FGF1/Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human FGF1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Dog,Pig,Horse,Rabbit)
Background:	background: FGF1 also designated Heparin-binding growth factor 1 precursor (HBGF-1) ; Acidic fibroblast growth factor (aFGF). 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. Subunit si monomer.FGF1 belongs to the heparin-binding growth factors family. may play a role in neurite outgrowth; may regulate cell differentiation in the nervous system; may act in synergy with fibronectin to enhance neuronal cell adhesion. **Function:** The heparin-binding fibroblast growth factors play important roles in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. They are potent mitogens in vitro. **Subunit:** Monomer. Homodimer. Interacts with FGFR1, FGFR2, FGFR3 and FGFR4. Affinity between fibroblast growth factors (FGFs) and their receptors

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	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. Interacts with LRRC59. Interacts with CSNKA, CSNKB and FIBP. While binding with LRRC59, CSNKA and FIBP seem mutually exclusive, CSNKB and FIBP may cooperatively interact with FGF1. **Subcellular Location:** Secreted. Cytoplasm. Cytoplasm, cell cortex. Cytoplasm, cytosol. Nucleus. Note=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. **Post-translational modifications:** In the nucleus, phosphorylated by PKC/PRKCD. **Similarity:** Belongs to the heparin-binding growth factors family. **Database links:** **Entrez Gene:** 2246 Human **Entrez Gene:** 25317 Rat **Entrez Gene:** 14164 Mouse Omim: 131220 Human **SwissProt:** P05230 Human **SwissProt:** P61149 Rat **SwissProt:** P61148 Mouse **Unigene:** 483635 Human **Unigene:** 88013 Rat **Unigene:** 241282 Mouse Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. Growth factors and hormones（ Growth Factor and Hormones） Heparin-binding growth factor (FGF1) can bind to heparin and is an angiogenic agent, as well as a potent mitogen for a variety of cells, stimulating the growth of various mesoderm-derived cells including chondrocytes, granulocytes and endothelial cells, and may play a role in wound healing and

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	animal limb regeneration. It is distributed and expressed at different levels in different tissues, exists as a monomer, and is a member of the heparin-binding growth factor family.

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