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FGF-1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody
Catalog # ABV11648

Specification

FGF-1 Polyclonal Antibody - Product Information

Application	**WB**
Primary Accession	P61148
Reactivity	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**rabbit IgG**
Calculated MW	**17418**

FGF-1 Polyclonal Antibody - Additional Information

Gene ID 14164

Other Names
Fibroblast Growth Factor 1, Heparin-binding growth factor 1, HBGF-1, Acidic fibroblast growth factor, aFGF, Putative heparin-binding growth factor 1, Alpha-endothelial cell growth factor, Endothelial cell growth factor alpha

Target/Specificity
FGF-1

Formulation
100 µg (0.5 mg/ml) of antibody in PBS pH 7.2, 0.01 % BSA, 0.03 % ProClin®, and 50 % glycerol.

Handling
The antibody solution should be gently mixed before use.

Background Descriptions

Precautions
FGF-1 Polyclonal Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

FGF-1 Polyclonal Antibody - Protein Information

Name Fgf1

Synonyms Fgf-1, Fgfa

Function
Plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. Functions as a potent mitogen in vitro. Acts as a ligand for

FGFR1 and integrins. Binds to FGFR1 in the presence of heparin leading to FGFR1 dimerization and activation via sequential autophosphorylation on tyrosine residues which act as docking sites for interacting proteins, leading to the activation of several signaling cascades. Binds to integrin ITGAV:ITGB3. Its binding to integrin, subsequent ternary complex formation with integrin and FGFR1, and the recruitment of PTPN11 to the complex are essential for FGF1 signaling. Induces the phosphorylation and activation of FGFR1, FRS2, MAPK3/ERK1, MAPK1/ERK2 and AKT1. Can induce angiogenesis.

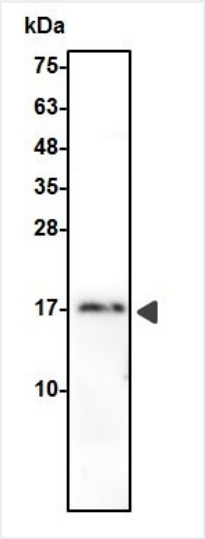
Cellular Location
Secreted. Cytoplasm. Cytoplasm, cell cortex. Cytoplasm, cytosol. Nucleus. Note=Lacks a cleavable signal sequence. Within the cytoplasm, it is transported to the cell membrane and then secreted by a non-classical pathway that requires Cu(2+) ions and S100A13. Secreted in a complex with SYT1. 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 (By similarity).

FGF-1 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FGF-1 Polyclonal Antibody - Images



Western blot analysis of anti-FGF1 pAb in mouse muscle lysate.

FGF-1 Polyclonal Antibody - Background

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differentiation and cell migration. Functions as potent mitogen in vitro.