

FGF-1 Polyclonal Antibody

Catalog # AP69878

Product Information

Application	IHC-P, IF, ICC, E
Primary Accession	P05230
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

Additional Information

Other Names	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
Dilution	IHC-P~Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications. IF~1:50~200 ICC~N/A E~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

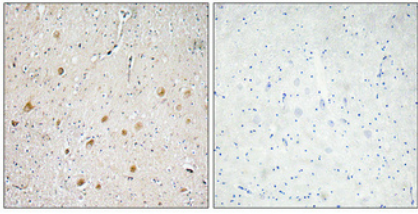
Protein Information

Background

Plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. Functions as 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 (PubMed:[18441324](#), PubMed:[20422052](#)). Can induce angiogenesis (PubMed:[23469107](#)).

Images

Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4°,overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtaned from antibody was pre-absorbed by



immunogen peptide.

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