

Product datasheet for **TA384217**

FGF1 Rabbit Monoclonal Antibody [Clone ID: R05-6A4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	R05-6A4
Applications:	WB
Recommended Dilution:	WB: 1/1000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Recombinant protein of human FGF1
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 17 kDa; Observed MW: 17 kDa
Gene Name:	fibroblast growth factor 1
Database Link:	Entrez Gene 2246 Human P05230



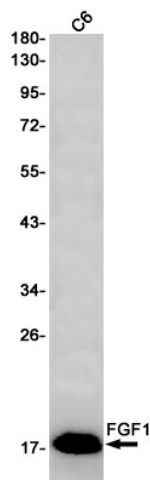
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Background:

Swiss-Prot Acc.P05230.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).

Synonyms:

AFGF; ECGF; ECGF-beta; ECGFA; ECGFB; FGF-alpha; FGFA; GLIO703; HBGF-1; HBGF1; OTTHUMP00000066031

Product images:

Western blot detection of FGF1 in C6 cell lysates using FGF1 Rabbit mAb(1:1000 diluted).Predicted band size:17kDa.Observed band size:17kDa.