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Product datasheet for TA306516

FGF4 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 0.5 - 1 ug/mL
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	FGF4 antibody was raised against a 18 amino acid peptide near the carboxy terminus of the human FGF4.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	fibroblast growth factor 4
Database Link:	NP_001998 Entrez Gene 14175 MouseEntrez Gene 2249 Human P08620

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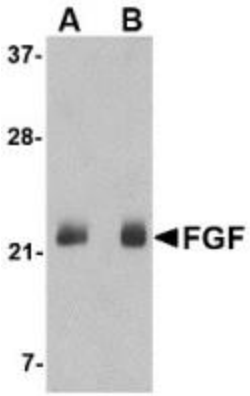
Background: Fibroblast growth factor 4 (FGF4) is a member of the fibroblast growth factor (FGF) family that possess broad mitogenic and cell survival activities and play key roles in growth and survival of stem cells during embryogenesis, tissue regeneration, and carcinogenesis. FGF4 was identified by its strong oncogenic transforming activity and is a potent angiogenic factor, expressed in several highly vascularized tumors and also in adult mouse testis, intestine, and brain. Studies on the mouse homolog suggests a function in bone morphogenesis and limb development through the sonic hedgehog (SHH) signaling pathway. Furthermore, FGF4 regulates neural progenitor cell proliferation and neuronal differentiation. Recent studies show a growth-promoting role for FGF4 in human embryonic stem cells and a putative feedback inhibition mechanism by a novel FGF4 splice isoform that may serve to promote differentiation at a later stages of development.

Synonyms: HBGF-4; HST; HST-1; HSTF1; K-FGF; KFGF

Protein Families: Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway, Transmembrane

Protein Pathways: MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton

Product images:



Western blot analysis of FGF4 in NIH 3T3 cell lysate with FGF4 antibody at (A) 0.5 and (B) 1 ug/mL.

Immunocytochemistry of FGF4 in 3T3 cells with FGF4 antibody at 2.5 ug/mL.

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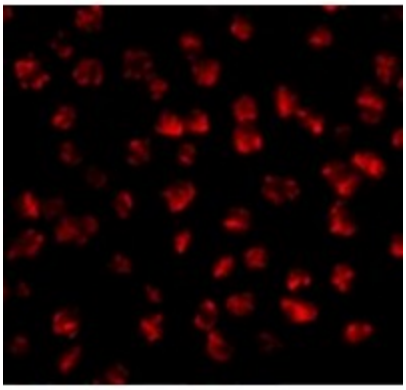

Immunofluorescence of FGF4 in 3T3 cells with FGF4 antibody at 2.5 ug/mL.

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