

FGF4 Antibody

FGF4: Fibroblast growth factor 4, Heparin secretory-transforming protein, HST-1, HST, Transforming protein KS3, HBGF-4, Kaposi sarcoma oncogene

CATALOG No.: 4433

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 (1). 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 (2,3). Studies on the mouse homolog suggests a function in bone morphogenesis and limb development through the sonic hedgehog (SHH) signaling pathway (4). Furthermore, FGF4 regulates neural progenitor cell proliferation and neuronal differentiation (5). 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 (6).

SOURCE:

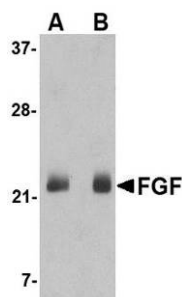
Rabbit polyclonal FGF4 antibody was raised against a 18 amino acid peptide near the carboxy terminus of the human FGF4 (GenBank accession no. P08620).

APPLICATION:

FGF4 antibody can be used for detection of FGF4 by Western blot at 0.5 – 1 µg/ml. (Optimal dilution should be determined by user.) 3T3 (NIH) cell lysate can be used as positive control. FGF4 antibody is human and mouse reactive. **For research use only.**

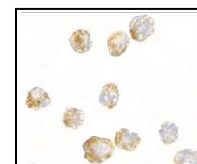
STORAGE:

FGF4 antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



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

Immunocytochemistry of FGF4 in 3T3 cells with FGF4 antibody at 2.5 µg/ml.



RELATED PRODUCTS:

Blocking Peptide, Catalog No. **4433P**.
3T3 Cell Lysate, Catalog No. **1282**.
FGF10 Antibody, Catalog No. **XP-5131**.
FGF16 Antibody, Catalog No. **XP-5132**.

REFERENCES:

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2. Delli-Bovi P, Curatola AM, Kern FG, et al. An oncogene isolated by transfection of Kaposi's sarcoma DNA encodes a growth factor that is a member of the FGF family. *Cell* 1987; 50:729-37.
3. Yoshida T, Ishimaru K, Sakamoto H, et al. Angiogenic activity of the recombinant hst-1 protein. *Cancer Lett.* 1994; 83:261-268.
4. Laufer E, Nelson CE, Johnson RL, et al. Sonic hedgehog and Fgf-4 act through a signaling cascade and feedback loop to integrate growth and patterning of the developing limb bud. *Cell* 1994; 79:993-1003.
5. Kosaka N, Kodama M, Sasaki H, et al. FGF-4 regulates neural progenitor cell proliferation and neuronal differentiation. *FASEB J.* 2006; 20:E623-E629.
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