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FGF4 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1799a

Product Information

Application	E
Primary Accession	P08620
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	2D7D5
Isotype	IgG1
Calculated MW	22048
Description	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities and are involved in a variety of biological processes including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This gene was identified by its oncogenic transforming activity. This gene and FGF3, another oncogenic growth factor, are located closely on chromosome 11. Co-amplification of both genes was found in various kinds of human tumors. Studies on the mouse homolog suggested a function in bone morphogenesis and limb development through the sonic hedgehog (SHH) signaling pathway.
Immunogen	Purified recombinant fragment of human FGF4 (AA: 62-123) expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	2249
Other Names	Fibroblast growth factor 4, FGF-4, Heparin secretory-transforming protein 1, HST, HST-1, HSTF-1, Heparin-binding growth factor 4, HBGF-4, Transforming protein KS3, FGF4, HST, HSTF1, KS3
Dilution	E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FGF4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FGF4 (HGNC:3682)
Function	Plays an important role in the regulation of embryonic development, cell proliferation, and cell differentiation. Required for normal limb and cardiac valve development during embryogenesis. May play a role in embryonic molar tooth bud development via inducing the expression of MSX1, MSX2 and MSX1-mediated expression of SDC1 in dental mesenchyme cells (By similarity).
Cellular Location	Secreted.

References

1.PLoS One. 2009;4(3):e4794. 2.Stem Cells. 2008 Mar;26(3):767-74.

Images

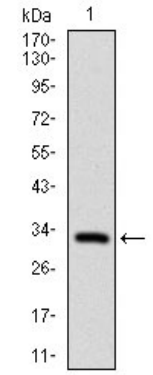

Figure 1: Western blot analysis using FGF4 mAb against human FGF4 recombinant protein. (Expected MW is 32.6 kDa)

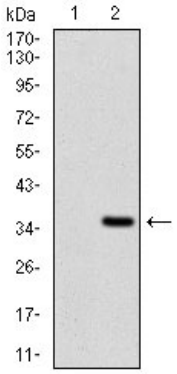

Figure 2: Western blot analysis using FGF4 mAb against HEK293 (1) and FGF4 (AA: 62-123)-hIgGFc transfected HEK293 (2) cell lysate.

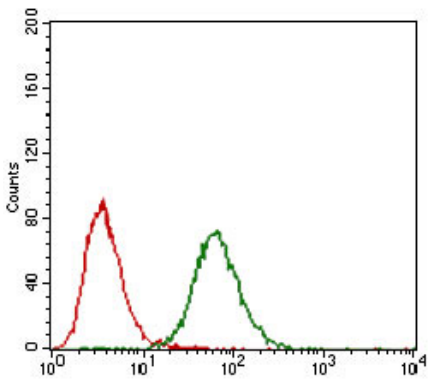

Figure 3: Flow cytometric analysis of NIH/3T3 cells using FGF4 mouse mAb (green) and negative control (red).