

FGF4 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1800a

Specification

FGF4 Antibody - Product Information

Application	E, WB
Primary Accession	P08620
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	22kDa KDa

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 humanFGF4 (AA: 62-123) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

FGF4 Antibody - 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

WB~~1/500 - 1/2000

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.

FGF4 Antibody - 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).

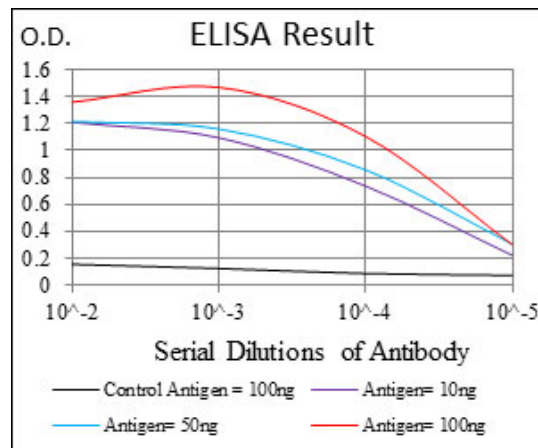
Cellular Location

Secreted.

FGF4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



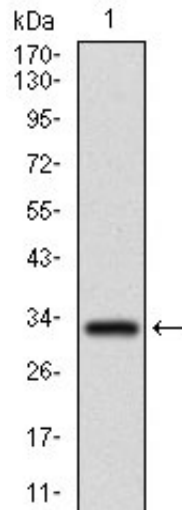


Figure 1: Western blot analysis using FGF4 mAb against human FGF4 recombinant protein. (Expected MW is 32.6 kDa)

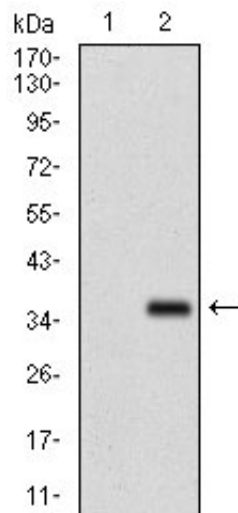


Figure 2: Western blot analysis using FGF4 mAb against HEK293 (1) and FGF4 (AA: 62-123)-hIgGFc transfected HEK293 (2) cell lysate.

FGF4 Antibody - Background

A human melanoma-associated chondroitin sulfate proteoglycan plays a role in stabilizing cell-substratum interactions during early events of melanoma cell spreading on endothelial basement membranes. CSPG4 represents an integral membrane chondroitin sulfate proteoglycan expressed by human malignant melanoma cells.

FGF4 Antibody - References

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