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# FGF4 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1800a

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | P08620 |
| **Reactivity** | Human |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Clone Names** | 3A12G9 |
| **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 humanFGF4 (AA: 62-123) expressed in E. Coli. |
| **Formulation** | Purified antibody in PBS with 0.05% sodium azide |

## Additional Information

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| **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** | WB~~1/500 - 1/2000 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

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| **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. |

## 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.

## References

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

## Images

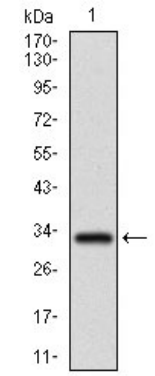



Figure 1: Western blot analysis using FGF4 mAb against human FGF4 recombinant protein. (Expected MW is 32.6 kDa)

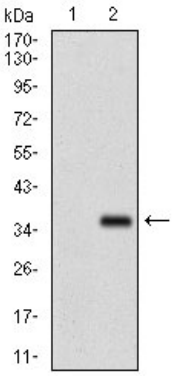



Figure 2: Western blot analysis using FGF4 mAb against HEK293 (1) and FGF4 (AA: 62-123)-hIgGFc transfected HEK293 (2) cell lysate.

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