

FGF-10 (H-121): sc-7917

BACKGROUND

Fibroblast growth factor-1 (FGF-1), also designated acidic FGF, and fibroblast growth factor-2 (FGF-2), also designated basic FGF, are members of a family of growth factors that stimulate proliferation of cells of mesenchymal, epithelial and neuroectodermal origin. Additional members of the FGF family include the oncogenes FGF-3 (Int2) and FGF-4 (HST/Kaposi), FGF-5, FGF-6, FGF-7 (KGF), FGF-8 (AIGF), FGF-9 (GAF) and FGF-10. Members of the FGF family share 30-55% amino acid sequence identity, similar gene structure and are capable of transforming cultured cells when overexpressed in transfected cells. Cellular receptors for FGFs are members of a second multigene family including four tyrosine kinases, designated Flg (FGFR-1), Bek (FGFR-L), TKF and FGFR-3.

REFERENCES

1. Moore, R., et al. 1986. Sequence, topography and protein coding potential of mouse Int-2: a putative oncogene activated by mouse mammary tumor virus. *EMBO J.* 5: 919-924.
2. Delli Bovi, P., et al. 1987. An oncogene isolated by transfection of Kaposi's sarcoma DNA encodes a growth factor that is a member of the FGF family. *Cell* 50: 729-737.

CHROMOSOMAL LOCATION

Genetic locus: FGF10 (human) mapping to 5p12; Fgf10 (mouse) mapping to 13 D2.3.

SOURCE

FGF-10 (H-121) is a rabbit polyclonal antibody raised against amino acids 10-130 of FGF-10 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

FGF-10 (H-121) is recommended for detection of precursor and mature FGF-10 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

FGF-10 (H-121) is also recommended for detection of precursor and mature FGF-10 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for FGF-10 siRNA (h): sc-39462, FGF-10 siRNA (m): sc-39463, FGF-10 shRNA Plasmid (h): sc-39462-SH, FGF-10 shRNA Plasmid (m): sc-39463-SH, FGF-10 shRNA (h) Lentiviral Particles: sc-39462-V and FGF-10 shRNA (m) Lentiviral Particles: sc-39463-V.

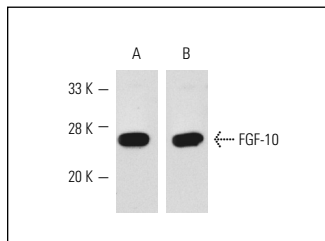
Molecular Weight of FGF-10: 19 kDa.

Positive Controls: human malignant glioma tissue extract.

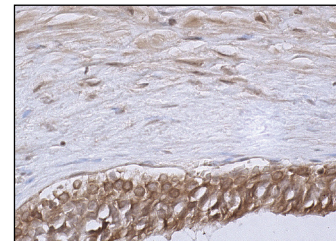
STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

DATA



Western blot analysis of human recombinant FGF-10 (A, B). Antibodies tested include FGF-10 (C-17): sc-7375 (A) and FGF-10 (H-121): sc-7917 (B).



FGF-10 (H-121): sc-7917. Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing cytoplasmic and nuclear staining of cells in seminiferous tubules.

SELECT PRODUCT CITATIONS

1. Suzuki, K., et al. 2000. Defective terminal differentiation and hypoplasia of the epidermis in mice lacking the FGF-10 gene. *FEBS Lett.* 481: 53-56.
2. Palmieri, C., et al. 2003. Fibroblast growth factor 7, secreted by breast fibroblasts, is an interleukin-1 β -induced paracrine growth factor for human breast cells. *J. Endocrinol.* 177: 65-81.
3. Theodorou, V. 2004. FGF-10 is an oncogene activated by MMTV insertional mutagenesis in mouse mammary tumors and overexpressed in a subset of human breast carcinomas. *Oncogene* 23: 6047-6055.
4. Kovacs, D., et al. 2005. Immunohistochemical analysis of keratinocyte growth factor and fibroblast growth factor 10 expression in psoriasis. *Exp. Dermatol.* 14: 130-137.
5. Fritz, T., et al. 2006. Low-intensity exercise increases skeletal muscle protein expression of PPAR δ and UCP3 in type 2 diabetic patients. *Diabetes Metab. Res. Rev.* 22: 492-498.
6. Cui, Y., et al. 2008. Effect of mammogenic hormones on the expression of FGF-7, FGF-10 and their receptor in mouse mammary gland. *Sci. China, C, Life Sci.* 51: 711-717.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

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Try **FGF-10 (3C7): sc-293208**, our highly recommended monoclonal alternative to FGF-10 (H-121).