

FGF-8 (N-19): sc-6958

BACKGROUND

Fibroblast growth factor-1 (FGF-1), also designated acidic FGF, and fibroblast growth factor-2 (FGF-2), also referred to as 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.
3. Zhan, X., et al. 1988. The human FGF-5 oncogene encodes a novel protein related to fibroblast growth factors. *Mol. Cell. Biol.* 8: 3487-3495.

CHROMOSOMAL LOCATION

Genetic locus: FGF8 (human) mapping to 10q24.32, FGF17 (human) mapping to 8p21.3; Fgf8 (mouse) mapping to 19 C3, Fgf17 (mouse) mapping to 14 D2.

SOURCE

FGF-8 (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FGF-8 of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-6958 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FGF-8 (N-19) is recommended for detection of precursor and mature FGF-8 and, to a lesser extent, FGF-17 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

FGF-8 (N-19) is also recommended for detection of FGF-8 and, to a lesser extent, FGF-17 in additional species, including canine, bovine, porcine and avian.

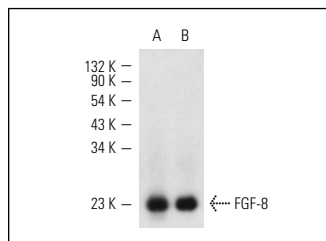
Molecular Weight of FGF-8: 30 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210 or LNCaP cell lysate: sc-2231.

STORAGE

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

DATA



FGF-8 (N-19): sc-6958. Western blot analysis of human recombinant FGF-8 (A) and mouse recombinant FGF-8 (B).

SELECT PRODUCT CITATIONS

1. Valve, E., et al. 2000. Expression of fibroblast growth factor FGF-8 isoforms and FGF receptors in human ovarian tumors. *Intl. J. Cancer* 88: 718-725.
2. Jaskoll, T., et al. 2004. Sonic Hedgehog signaling plays an essential role during embryonic salivary gland epithelial branching morphogenesis. *Dev. Dyn.* 229: 722-732.
3. Thewissen, J.G., et al. 2006. Developmental basis for hind-limb loss in dolphins and origin of the cetacean bodyplan. *Proc. Natl. Acad. Sci. USA* 103: 8414-8418.
4. Seifert, A.W., et al. 2009. Functional and phylogenetic analysis shows that Fgf8 is a marker of genital induction in mammals but is not required for external genital development. *Development* 136: 2643-2651.
5. Owtad, P., et al. 2011. A histochemical study on condylar cartilage and glenoid fossa during mandibular advancement. *Angle Orthod.* 81: 270-276.
6. Farahani, R.M., et al. 2012. Directed glia-assisted angiogenesis in a mature neurosensory structure: pericytes mediate an adaptive response in human dental pulp that maintains blood-barrier function. *J. Comp. Neurol.* 520: 3803-3826.

RESEARCH USE

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PROTOCOLS

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