

FGF-5 (C-19): sc-1362

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

- 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.
- 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.
- 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.
- Rifkin, D.B., et al. 1989. Recent developments in the cell biology of fibroblast growth factor. *J. Cell Biol.* 109: 1-6.
- Marics, I., et al. 1989. Characterization of the HST-related FGF-6 gene, a new member of the fibroblast growth factor gene family. *Oncogene* 4: 335-340.
- Dionne, C.A., et al. 1990. Cloning and expression of two distinct high-affinity receptors cross-reacting with acidic and basic fibroblast growth factors. *EMBO J.* 9: 2685-2692.
- Tanaka, A., et al. 1992. Cloning and characterization of an androgen-induced growth factor essential for the androgen-dependent growth of mouse mammary carcinoma cells. *Proc. Natl. Acad. Sci. USA* 89: 8928-8932.

CHROMOSOMAL LOCATION

Genetic locus: FGF4 (human) mapping to 11q13.3.

SOURCE

FGF-5 (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of FGF-5 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.

Blocking peptide available for competition studies, sc-1362 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

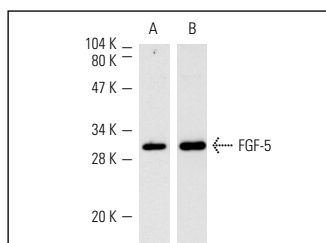
FGF-5 (C-19) is recommended for detection of precursor and mature FGF-5 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for FGF-5 siRNA (h): sc-39452, FGF-5 shRNA Plasmid (h): sc-39452-SH and FGF-5 shRNA (h) Lentiviral Particles: sc-39452-V.

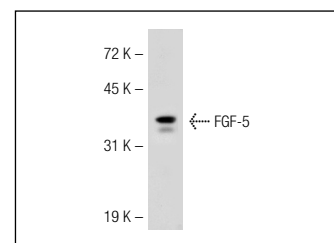
Molecular Weight of FGF-5: 27 kDa.

Positive Controls: BC₃H1 cell lysate: sc-2299, A-375 cell lysate: sc-3811 or human placenta extract: sc-363772.

DATA



Western blot analysis of human recombinant FGF-5. Antibodies tested include FGF-5 (M-19): sc-1363 (A) and FGF-5 (C-19): sc-1362 (B).



FGF-5 (C-19): sc-1362. Western blot analysis of FGF-5 expression in A-375 whole cell lysate.

SELECT PRODUCT CITATIONS

- Kornmann, M., et al. 1997. Fibroblast growth factor-5 stimulates mitogenic signaling and is overexpressed in human pancreatic cancer: evidence for autocrine and paracrine actions. *Oncogene* 15: 1417-1424.
- Bodo, E., et al. 2005. A hot new twist to hair biology: involvement of vanilloid receptor-1 (VR1/TRPV1) signaling in human hair growth control. *Am. J. Pathol.* 166: 985-998.
- Krejci, P., et al. 2007. Fibroblast growth factors 1, 2, 17, and 19 are the predominant FGF ligands expressed in human fetal growth plate cartilage. *Pediatr. Res.* 61: 267-272.

STORAGE

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

MONOS
Satisfaction
Guaranteed

Try **FGF-5 (F-11): sc-376264** or **FGF-5 (4i159): sc-71106**, our highly recommended monoclonal alternatives to FGF-5 (C-19).