

FGF-19 (W12): sc-73984

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–FGF-23. Members of the FGF family share 30-55% amino acid sequence identity and 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 Int2: 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. and Moscatelli, D. 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.
- Miyamoto, M., et al. 1993. Molecular cloning of a novel cytokine cDNA encoding the ninth member of the fibroblast growth factor family, which has a unique secretion property. *Mol. Cell. Biol.* 13: 4251-4259.

CHROMOSOMAL LOCATION

Genetic locus: FGF19 (human) mapping to 11q13.3.

SOURCE

FGF-19 (W12) is a mouse monoclonal antibody raised against full length recombinant FGF-19 of human origin.

PRODUCT

Each vial contains 100 µg IgG₁ in 1.0 ml PBS with < 0.1% sodium azide and protein stabilizer.

APPLICATIONS

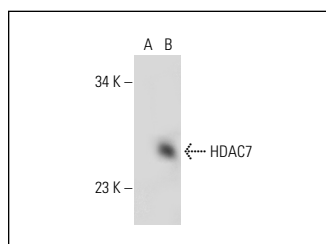
FGF-19 (W12) is recommended for detection of FGF-19 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (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).

Suitable for use as control antibody for FGF-19 siRNA (h): sc-39480, FGF-19 shRNA Plasmid (h): sc-39480-SH and FGF-19 shRNA (h) Lentiviral Particles: sc-39480-V.

Molecular Weight of FGF-19: 24 kDa.

Positive Controls: FGF-19 (h): 293 Lysate: sc-112915.

DATA



FGF-19 (W12): sc-73984. Western blot analysis of FGF-19 expression in non-transfected: sc-110760 (A) and human FGF-19 transfected: sc-112915 (B) 293 whole cell lysates.

SELECT PRODUCT CITATIONS

- Wang, H., et al. 2011. Pregnane X receptor activation induces FGF19-dependent tumor aggressiveness in humans and mice. *J. Clin. Invest.* 121: 3220-3232.
- Buhmeida, A., et al. 2014. High fibroblast growth factor 19 (FGF19) expression predicts worse prognosis in invasive ductal carcinoma of breast. *Tumour Biol.* 35: 2817-2824.
- Zhang, X., et al. 2016. Increased expression of FGF19 contributes to tumor progression and cell motility of human thyroid cancer. *Otolaryngol. Head Neck Surg.* 154: 52-58.
- Wang, S., et al. 2016. FGF19 contributes to tumor progression in gastric cancer by promoting migration and invasion. *Oncol. Res.* 23: 197-203.
- Bongrani, A., et al. 2019. Expression of adipokines in seminal fluid of men of normal weight. *Asian J. Androl.* 21: 528-530.

STORAGE

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

RESEARCH USE

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