

FGF-20 (F-5): sc-373927

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 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. and Moscatelli, D. 1989. Recent developments in the cell biology of fibroblast growth factor. *J. Cell Biol.* 109: 1-6.

CHROMOSOMAL LOCATION

Genetic locus: FGF20 (human) mapping to 8p22; Fgf20 (mouse) mapping to 8 A4.

SOURCE

FGF-20 (F-5) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 27-53 near the N-terminus of FGF-20 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

FGF-20 (F-5) is available conjugated to agarose (sc-373927 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-373927 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-373927 PE), fluorescein (sc-373927 FITC), Alexa Fluor[®] 488 (sc-373927 AF488), Alexa Fluor[®] 546 (sc-373927 AF546), Alexa Fluor[®] 594 (sc-373927 AF594) or Alexa Fluor[®] 647 (sc-373927 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-373927 AF680) or Alexa Fluor[®] 790 (sc-373927 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-373927 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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APPLICATIONS

FGF-20 (F-5) is recommended for detection of FGF-20 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

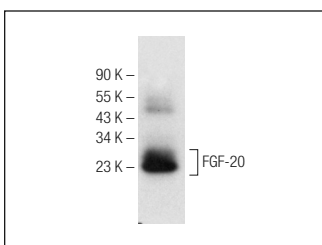
Suitable for use as control antibody for FGF-20 siRNA (h): sc-39482, FGF-20 siRNA (m): sc-39483, FGF-20 shRNA Plasmid (h): sc-39482-SH, FGF-20 shRNA Plasmid (m): sc-39483-SH, FGF-20 shRNA (h) Lentiviral Particles: sc-39482-V and FGF-20 shRNA (m) Lentiviral Particles: sc-39483-V.

Molecular Weight of FGF-20: 23 kDa.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

DATA



FGF-20 (F-5): sc-373927. Western blot analysis of human recombinant FGF-20.

SELECT PRODUCT CITATIONS

- Cai, X., et al. 2022. Glioma cell-derived FGF-20 suppresses macrophage function by activating β-catenin. *Cell. Signal.* 89: 110181.
- Chen, Y., et al. 2022. Fibroblast growth factor 20 attenuates pathological cardiac hypertrophy by activating the SIRT1 signaling pathway. *Cell Death Dis.* 13: 276.

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.