

FGF-17 (N-20): sc-16826

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

1. Rifkin, D.B., et al. 1989. Recent developments in the cell biology of fibroblast growth factor. *J. Cell Biol.* 109: 1–6.
2. 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.
3. Mansukhani, A., et al. 1992. Characterization of the murine BEK fibroblast growth factor (FGF) receptor: activation by three members of the FGF family and requirement for heparin. *Proc. Natl. Acad. Sci. USA* 89: 3305–3309.
4. Hoshikawa, M., et al. 1998. Structure and expression of a novel fibroblast growth factor, FGF-17, preferentially expressed in the embryonic brain. *Biochem. Biophys. Res. Commun.* 244:187–191.
5. SWISS-PROT/TrEMBL (O60258). World Wide Web URL: <http://www.expasy.ch/sprot/sprot-top.html>

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-17 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of FGF-17 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-16826 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

APPLICATIONS

FGF-17 (N-20) is recommended for detection of precursor and mature FGF-17 and FGF-8 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100–1:1000), 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-17 (N-20) is also recommended for detection of precursor and mature FGF-8 and FGF-17 in additional species, including equine, canine and porcine.

Molecular Weight of FGF-17: 23 kDa.

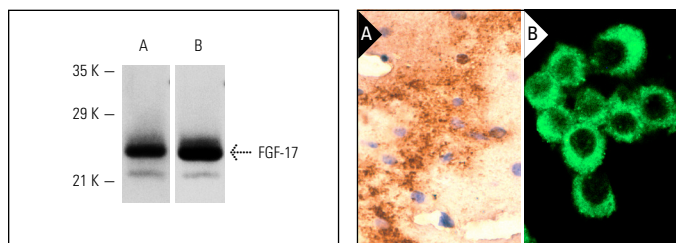
Molecular Weight of FGF-8: 28 kDa.

Positive Controls: mouse brain extract: sc-2253.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000–1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000–1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100–1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100–1:400) with UltraCruz™ Mounting Medium: sc-24941. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



Western blot analysis of human recombinant FGF-17. Antibodies tested include: FGF-17 (N-20): sc-16826 (A) and FGF-17 (C-14): sc-16828 (B).

FGF-17 (N-20): sc-16826. Immunoperoxidase staining of formalin fixed, paraffin-embedded mouse brain tissue showing extracellular localization (A). Immunofluorescence staining of methanol-fixed NIH/3T3 cells showing cytoplasmic localization (B).

RESEARCH USE

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

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Try **FGF-17 (B-4): sc-376056**, our highly recommended monoclonal alternative to FGF-17 (N-20).