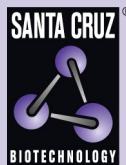


# FGF-13 (C-20): sc-16811



The Power to Question

## 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 multi-gene family including four tyrosine kinases, designated Flg (FGFR-1), Bek (FGFR-L), TKF and FGFR-3.

## REFERENCES

- Rifkin, D.B., et al. 1989. Recent developments in the cell biology of fibroblast growth factor. *J. Cell Biol.* 109: 1-6.
- 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.
- 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.
- Yamamoto, S., et al. 1998. Structure and expression of a novel isoform of mouse FGF homologous factor (FHF)-4. *Biochim. Biophys. Acta* 1398: 38-41.
- Gecz, J., et al. 1999. Fibroblast growth factor homologous factor 2 (FHF2): gene structure, expression and mapping to the Borjeson-Forssman-Lehmann syndrome region in Xq26 delineated by a duplication breakpoint in a BFLS-like patient. *Hum. Genet.* 104: 56-63.
- Munoz-Sanjuan, I., et al. 1999. Expression of chicken fibroblast growth factor homologous factor (FHF)-1 and of differentially spliced isoforms of FHF-2 during development and involvement of FHF-2 in chicken limb development. *Development* 126: 409-421.

## CHROMOSOMAL LOCATION

Genetic locus: FGF13 (human) mapping to Xq26.3; Fgf13 (mouse) mapping to X A6.

## SOURCE

FGF-13 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of FGF-13 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-16811 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-13 (C-20) is recommended for detection of precursor and mature FGF-13 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), 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-13 (C-20) is also recommended for detection of precursor and mature FGF-13 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for FGF-13 siRNA (h): sc-39468, FGF-13 siRNA (m): sc-39469, FGF-13 shRNA Plasmid (h): sc-39468-SH, FGF-13 shRNA Plasmid (m): sc-39469-SH, FGF-13 shRNA (h) Lentiviral Particles: sc-39468-V and FGF-13 shRNA (m) Lentiviral Particles: sc-39469-V.

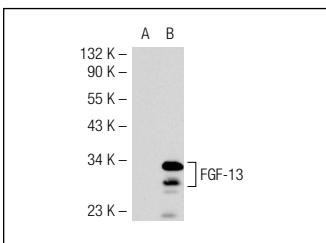
Molecular Weight of FGF-13: 22 kDa.

Positive Controls: KNRK whole cell lysate: sc-2214 or FGF-13 (h): 293T Lysate: sc-113701.

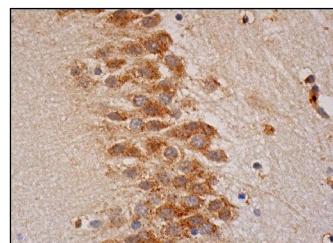
## RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

## DATA



FGF-13 (C-20): sc-16811. Western blot analysis of FGF-13 expression in non-transfected: sc-117752 (**A**) and human FGF-13 transfected: sc-113701 (**B**) 293T whole cell lysates.



FGF-13 (C-20): sc-16811. Immunoperoxidase staining of formalin fixed, paraffin embedded human hippocampus tissue showing cytoplasmic staining of neuronal cells and glial cells.

## STORAGE

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