

# FGF-17 (B-4): sc-376056

## 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.

## CHROMOSOMAL LOCATION

Genetic locus: FGF17 (human) mapping to 8p21.3; Fgf17 (mouse) mapping to 14 D2.

## SOURCE

FGF-17 (B-4) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 183-215 near the C-terminus of FGF-17 of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

FGF-17 (B-4) is available conjugated to agarose (sc-376056 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-376056 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376056 PE), fluorescein (sc-376056 FITC), Alexa Fluor® 488 (sc-376056 AF488), Alexa Fluor® 546 (sc-376056 AF546), Alexa Fluor® 594 (sc-376056 AF594) or Alexa Fluor® 647 (sc-376056 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-376056 AF680) or Alexa Fluor® 790 (sc-376056 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-376056 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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## STORAGE

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

## APPLICATIONS

FGF-17 (B-4) is recommended for detection of precursor and mature FGF-17 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), 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-17 siRNA (h): sc-39476, FGF-17 siRNA (m): sc-39477, FGF-17 shRNA Plasmid (h): sc-39476-SH, FGF-17 shRNA Plasmid (m): sc-39477-SH, FGF-17 shRNA (h) Lentiviral Particles: sc-39476-V and FGF-17 shRNA (m) Lentiviral Particles: sc-39477-V.

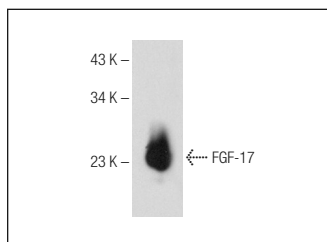
Molecular Weight of FGF-17: 23 kDa.

Positive Controls: mouse brain extract: sc-2253.

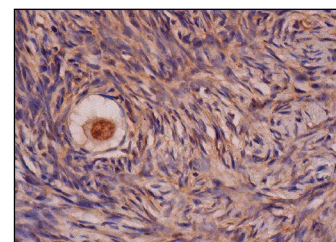
## RECOMMENDED SUPPORT REAGENTS

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. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

## DATA



FGF-17 (B-4): sc-376056. Western blot analysis of human recombinant FGF-17.



FGF-17 (B-4): sc-376056. Immunoperoxidase staining of formalin fixed, paraffin-embedded human ovary tissue showing cytoplasmic staining of follicle cells and ovarian stroma cells.

## SELECT PRODUCT CITATIONS

1. Cases, O., et al. 2013. Cubilin, a high affinity receptor for fibroblast growth factor 8, is required for cell survival in the developing vertebrate head. *J. Biol. Chem.* 288: 16655-16670.

## RESEARCH USE

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