

FGF-5 (4i159): sc-71106

BACKGROUND

Fibroblast growth factor-1 (FGF-1), also designated acidic FGF, and fibroblast growth factor-2 (FGF-2), also referred to as 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. 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. FGF-5, also designated Smag-82 and HBGF-5 was identified as the product of an oncogene and the protein is expressed in neonatal brain. Alternative splicing results in long and short isoforms (FGF-5S) of the protein where the C-terminal residues 124-268 are missing in the truncated FGF-5S.

REFERENCES

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- 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.
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CHROMOSOMAL LOCATION

Genetic locus: FGF5 (human) mapping to 4q21.21.

RESEARCH USE

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

SOURCE

FGF-5 (4i159) is a mouse monoclonal antibody raised against recombinant FGF-5 of human origin.

PRODUCT

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

APPLICATIONS

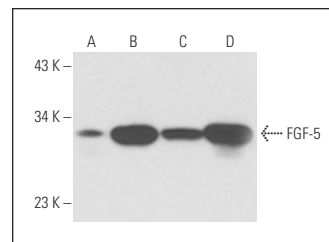
FGF-5 (4i159) is recommended for detection of FGF-5 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for FGF-5 siRNA (h): sc-39452, FGF-5 shRNA Plasmid (h): sc-39452-SH and FGF-5 shRNA (h) Lentiviral Particles: sc-39452-V.

Molecular Weight of FGF-5: 34 kDa.

Positive Controls: A-375 cell lysate: sc-3811, ARPE-19 whole cell lysate: sc-364357 or Hs 732.Sk/Mu whole cell lysate: sc-364362.

DATA



FGF-5 (4i159): sc-71106. Western blot analysis of FGF-5 expression in ARPE-19 (A), Hs 732.Sk/Mu (B), Hs 294T (C) and A-375 (D) whole cell lysates.

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 for detailed protocols and support products.