

FGF-1 (H-125): sc-7910

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, 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.

CHROMOSOMAL LOCATION

Genetic locus: FGF1 (human) mapping to 5q31.3; Fgf1 (mouse) mapping to 18 B3.

SOURCE

FGF-1 (H-125) is a rabbit polyclonal antibody raised against amino acids 16-140 representing all but the carboxy terminal 15 amino acids of mature FGF-1 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.

APPLICATIONS

FGF-1 (H-125) is recommended for detection of FGF-1 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-1 (H-125) is also recommended for detection of FGF-1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for FGF-1 siRNA (h): sc-39444, FGF-1 siRNA (m): sc-39445, FGF-1 shRNA Plasmid (h): sc-39444-SH, FGF-1 shRNA Plasmid (m): sc-39445-SH, FGF-1 shRNA (h) Lentiviral Particles: sc-39444-V and FGF-1 shRNA (m) Lentiviral Particles: sc-39445-V.

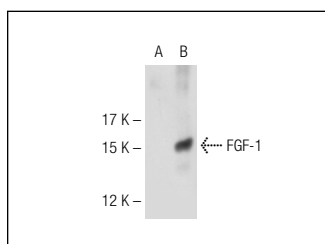
Molecular Weight of FGF-1: 15.5 kDa.

Positive Controls: FGF-1 (h): 293T Lysate: sc-115191.

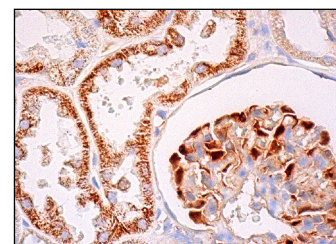
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



FGF-1 (H-125): sc-7910. Western blot analysis of FGF-1 expression in non-transfected: sc-117752 (A) and human FGF-1 transfected: sc-115191 (B) 293T whole cell lysates.



FGF-1 (H-125): sc-7910. Immunoperoxidase staining of formalin fixed, paraffin-embedded human kidney tissue showing cytoplasmic staining of cells in glomerulus and tubules.

SELECT PRODUCT CITATIONS

- Chrusciel, M., et al. 2010. mRNA and protein expression of FGF-1, FGF-2 and their receptors in the porcine umbilical cord during pregnancy. *Folia Histochem. Cytobiol.* 48: 572-580.

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.

PROTOCOLS

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


 MONOS
Satisfaction
Guaranteed

Try **FGF-1 (B-3): sc-55520** or **FGF-1 (D-11): sc-13123**, our highly recommended monoclonal alternatives to FGF-1 (H-125).