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.

CHROMOSOMAL LOCATION

Genetic locus: FGF4 (human) mapping to 11q13.3; Fgf4 (mouse) mapping to 7 F5.

SOURCE

FGF-4 (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of FGF-4 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-1361 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FGF-4 (C-18) is recommended for detection of precursor and mature FGF-4 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-4 (C-18) is also recommended for detection of precursor and mature FGF-4 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for FGF-4 siRNA (h); sc-39450, FGF-4 siRNA (m): sc-39451, FGF-4 shRNA Plasmid (h): sc-39450-SH, FGF-4 shRNA Plasmid (m): sc-39451-SH, FGF-4 shRNA (h) Lentiviral Particles: sc-39450-V and FGF-4 shRNA (m) Lentiviral Particles: sc-39451-V.

Molecular Weight of FGF-4: 17 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

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.

DATA

Select Product Citations


Try FGF-4 (19805.11): sc-57126, our highly recommended monoclonal alternative to FGF-4 (C-18).