

FGF-2 (C-18): sc-1360

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. 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: FGF2 (human) mapping to 4q27; Fgf2 (mouse) mapping to 3 B.

SOURCE

FGF-2 (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of FGF-2 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-1360 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FGF-2 (C-18) is recommended for detection of precursor and mature FGF-2 of mouse, rat, human and *Xenopus laevis* 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-2 (C-18) is also recommended for detection of precursor and mature FGF-2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for FGF-2 siRNA (h): sc-39446, FGF-2 siRNA (m): sc-39447, FGF-2 shRNA Plasmid (h): sc-39446-SH, FGF-2 shRNA Plasmid (m): sc-39447-SH, FGF-2 shRNA (h) Lentiviral Particles: sc-39446-V and FGF-2 shRNA (m) Lentiviral Particles: sc-39447-V.

Molecular Weight of FGF-2 isoforms: 18/21/24 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227 or HeLa whole cell lysate: sc-2200.

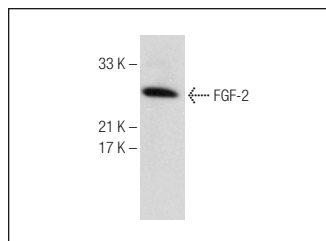
STORAGE

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

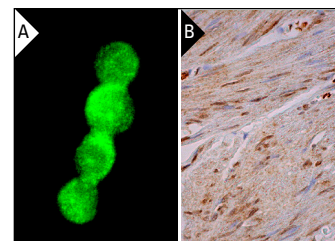
RESEARCH USE

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

DATA



FGF-2 (C-18): sc-1360. Western blot analysis of FGF-2 expression in Hep G2 whole cell lysate.



FGF-2 (C-18): sc-1360. Immunofluorescence staining of methanol-fixed COLO 320DM cells showing cytoplasmic localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human smooth muscle tissue showing nuclear and cytoplasmic staining of smooth muscle cells (B).

SELECT PRODUCT CITATIONS

1. Sakuma, K., et al. 1998. Differential adaptations of insulin-like growth factor-I, basic fibroblast growth factor, and leukemia inhibitory factor in the plantaris muscle of rats by mechanical overloading: an immunohistochemical study. *Acta Neuropathol.* 95: 123-130.
2. Qu, R., et al. 2007. Neurotrophic and growth factor gene expression profiling of mouse bone marrow stromal cells induced by ischemic brain extracts. *Neuropathology* 27: 355-363.
3. Sales, K.J., et al. 2007. F-prostanoid receptor regulation of fibroblast growth factor 2 signaling in endometrial adenocarcinoma cells. *Endocrinology* 148: 3635-3644.
4. Tang, W., et al. 2011. Mitogen-activated protein kinases ERK 1/2- and p38-GATA4 pathways mediate the Ang II-induced activation of FGF2 gene in neonatal rat cardiomyocytes. *Biochem. Pharmacol.* 81: 518-525.
5. Zhu, H.J., et al. 2012. Impaired N-cadherin-mediated adhesion increases the risk of inducible ventricular arrhythmias in isolated rat hearts. *Sci. Res. Essays* 7: 2983-2991.
6. Pretheeban., T., et al. 2012. Comparison of expression levels of candidate genes in endometrium of dairy heifers and lactating dairy cows. *Can. J. Anim. Sci.* 91: 255-264.
7. Yuan, H., et al. 2015. The regulatory mechanism of neurogenesis by IGF-1 in adult mice. *Mol. Neurobiol.* 51: 512-522.

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Try **FGF-2 (G-2): sc-365106** or **FGF-2 (C-2): sc-74412**, our highly recommended monoclonal alternatives to FGF-2 (C-18). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **FGF-2 (G-2): sc-365106**.