**FGF-2 (C-2): sc-74412**

**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-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.

**CHROMOSOMAL LOCATION**

Genetic locus: FGFR2 (human) mapping to 4q27; Fgfr2 (mouse) mapping to 3 B.

**SOURCE**

FGF-2 (C-2) is a mouse monoclonal antibody raised against amino acids 10-140 of FGF-2 of human origin.

**PRODUCT**

Each vial contains 200 μg IgG₂₉ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

FGF-2 (C-2) is available conjugated to agarose (sc-74412 AC), 500 μg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-74412 HRP), 200 μg/ml, for WB, HRP and ELISA; to either phycoerythrin (sc-74412 PE), fluorescein (sc-74412 FITC), Alexa Fluor® 488 (sc-74412 AF488), Alexa Fluor® 546 (sc-74412 AF546), Alexa Fluor® 594 (sc-74412 AF594) or Alexa Fluor® 647 (sc-74412 AF647), 200 μg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-74412 AF680) or Alexa Fluor® 790 (sc-74412 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

FGF-2 (C-2) is recommended for detection of precursor and mature FGF-2 of mouse, rat, human and *Xenopus laevis* 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).


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

Positive Controls: U-251-MG whole cell lysate: sc-24662 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.

**DATA**

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–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.

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

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