

## FGF-7 (N-14): sc-1366

### 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

1. 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.
2. 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.
3. Zhan, X., et al. 1988. The human FGF-5 oncogene encodes a novel protein related to fibroblast growth factors. *Mol. Cell. Biol.* 8: 3487-3495.
4. Marics, I., et al. 1989. Characterization of the HST-related FGF6 gene, a new member of the fibroblast growth factor gene family. *Oncogene* 4: 335-340.
5. Dionne, C.A., et al. 1990. Cloning and expression of two distinct high-affinity receptors cross-reacting with acidic and basic fibroblast growth factors. *EMBO J.* 9: 2685-2692.
6. Tanaka, A., et al. 1992. Cloning and characterization of an androgen-induced growth factor essential for the androgen-dependent growth of mouse mammary carcinoma cells. *Proc. Natl. Acad. Sci. USA* 89: 8928-8932.
7. 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.

### CHROMOSOMAL LOCATION

Genetic locus: FGF7 (human) mapping to 15q21.2.

### SOURCE

FGF-7 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of FGF-7 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-1366 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

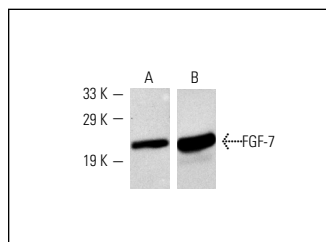
### APPLICATIONS

FGF-7 (N-14) is recommended for detection of precursor and mature FGF-7 and PP 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)], immunofluorescence (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-7 (N-14) is also recommended for detection of precursor and mature FGF-7 and PP in additional species, including equine, canine, bovine, porcine and avian.

Molecular Weight of FGF-7: 28 kDa.

### DATA



Western blot analysis of human recombinant FGF-7 (A,B). Antibodies tested include FGF-7 (N-14): sc-1366 (A) and FGF-7 (C-19): sc-1365 (B).

### SELECT PRODUCT CITATIONS

1. Ishiwata, T., et al. 1998. Characterization of keratinocyte growth factor and receptor expression in human pancreatic cancer. *Am. J. Pathol.* 153: 213-222.
2. Palmieri, C., et al. 2003. Fibroblast growth factor 7, secreted by breast fibroblasts, is an interleukin-1 $\beta$ -induced paracrine growth factor for human breast cells. *J. Endocrinol.* 177: 65-81.

### 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **FGF-7 (A-9): sc-515014** or **FGF-7 (F-9): sc-365440**, our highly recommended monoclonal alternatives to FGF-7 (N-14).