

Bek (H-80): sc-20735

BACKGROUND

Acidic and basic fibroblast growth factors (FGFs) are members of a family of multifunctional polypeptide growth factors that stimulate proliferation of cells of mesenchymal, epithelial and neuroectodermal origin. Like other growth factors, FGFs act by binding and activating specific cell surface receptors. These include the Flg receptor or FGFR-1, the Bek receptor (or FGFR-2), FGFR-3, FGFR-4, FGFR-5 and FGFR-6. These receptors usually contain an extracellular ligand-binding region containing three immunoglobulin-like domains, a trans-membrane domain and a cytoplasmic tyrosine kinase domain. The gene encoding human Bek (also designated K-sam) maps to chromosome 10q26.13 and is alternatively spliced to produce several isoforms. Heterogeneous mutations in Bek are associated with a range of craniosynostosis syndromes including Pfeiffer syndrome, Crouzon syndrome, Jackson-Weiss syndrome and Apert syndrome.

CHROMOSOMAL LOCATION

Genetic locus: FGFR2 (human) mapping to 10q26.13; Fgfr2 (mouse) mapping to 7 F3.

SOURCE

Bek (H-80) is a rabbit polyclonal antibody raised against amino acids 22-101 of Bek 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

Bek (H-80) is recommended for detection of Bek 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).

Bek (H-80) is also recommended for detection of Bek in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for Bek siRNA (h): sc-29218, Bek siRNA (m): sc-29799, Bek shRNA Plasmid (h): sc-29218-SH, Bek shRNA Plasmid (m): sc-29799-SH, Bek shRNA (h) Lentiviral Particles: sc-29218-V and Bek shRNA (m) Lentiviral Particles: sc-29799-V.

Molecular Weight of Bek monomer: 110/120 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210.

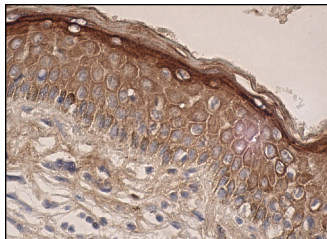
STORAGE

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



Bek (H-80): sc-20735. Immunoperoxidase staining of formalin fixed, paraffin-embedded human skin tissue showing cytoplasmic staining of epidermal cells.

SELECT PRODUCT CITATIONS

- Cardinali, G., et al. 2005. Keratinocyte growth factor promotes melanosome transfer to keratinocytes. *J. Invest. Dermatol.* 125: 1190-1199.
- Budagian, V., et al. 2005. A promiscuous liaison between IL-15 receptor and Axl receptor tyrosine kinase in cell death control. *EMBO J.* 24: 4260-4270.
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- Belleudi, F., et al. 2007. Keratinocyte growth factor receptor ligands target the receptor to different intracellular pathways. *Traffic* 8: 1854-1872.
- Cottoni, F., et al. 2009. Overexpression of the fibroblast growth factor receptor 2-IIIc in Kaposi's sarcoma. *J. Dermatol. Sci.* 53: 65-68.
- Belleudi, F., et al. 2009. Hrs regulates the endocytic sorting of the fibroblast growth factor receptor 2b. *Exp. Cell Res.* 315: 2181-2191.
- Belleudi, F., et al. 2011. Expression and signaling of the tyrosine kinase FGFR2b/KGFR regulates phagocytosis and melanosome uptake in human keratinocytes. *FASEB J.* 25: 170-181.
- Ishigami, T., et al. 2013. The involvement of fibroblast growth factor receptor signaling pathways in dermatofibroma and dermatofibrosarcoma protuberans. *J. Med. Invest.* 60: 106-113.

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