

anti-FGFR2**DATA**

Cat #: HM1147
Mouse monoclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Fibroblast growth factors (FGFs) belong to a family of growth factors that bind and activate specific cell surface receptors. These receptors include FGFR1 (Flg receptor), FGFR2 (Bek receptor), FGFR3, FGFR4, FGFR5 and FGFR6. FGFRs contain an extracellular ligand-binding region containing three immunoglobulin-like domains, a transmembrane domain and a cytoplasmic tyrosine kinase domain. Activation of FGFRs stimulates the proliferation of many cell types. Heterogeneous mutations in Bek are associated with a range of craniosynostosis syndromes, including Pfeiffer syndrome, Crouzon syndrome, Jackson-Weiss syndrome and Apert syndrome.

SPECIFICITY

This antibody reacts with Bek of mouse, rat and human origin by Western blotting, immunoprecipitation and immunohistochemistry; non cross-reactive with Flg, FGFR-3 or FGFR-4.

IMMUNOGEN

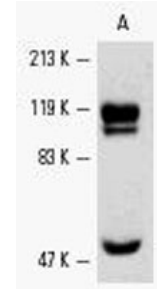
A recombinant protein corresponding to the carboxy terminus of human FGFR-2.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

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2. Mansukhani, A., Dell'Era, P., Moscatelli, D., Kornbluth, S., Hanafusa, H., and Basilico, C. 1992. Characterization of the murine BEK fibroblast growth factor (FGF) receptor: activation by three members of the FGF family and requirement for heparin. *Proc. Natl. Acad. Sci. USA* 89: 3305-3309.
3. Sarkar, S., Petiot, A., Copp, A., Ferretti, P. and Thorogood, P. (2001) FGF2 promotes skeletogenic differentiation of cranial neural crest cells. *Development* 128, 2143-2152.
4. Park, W.J., Meyers, G.A., Li, X., Theda, C., Day, D., Orlow, S.J., Jones, M.C., and Jabs, E.W. 1995. Novel FGFR2 mutations in Crouzon and Jackson-Weiss syndromes show allelic heterogeneity and phenotypic variability. *Hum. Mol. Genet.* 4: 1229-1233.
5. Lapunzina, P., Fernandez, A., Sanchez Romero, J.M., Delicado, A., Saenz de Pipaon, M., Lopez Pajares, I. and Molano, J. (2005) A novel insertion in the FGFR2 gene in a patient with Crouzon phenotype and sacrocoxygeal tail. *Oncogene* 24, 61-64.



Western blot analysis of Bek in Bek-transfected NIH/3T3 cells. Antibodies tested: anti-Bek (HM1147).

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