

---

**Anti-FGFR4**

Cat #: HM1149  
Rabbit polyclonal 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 Flg receptor (FGFR1), Bek receptor (FGFR2), 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. FGFR4 is expressed in fetal adrenal, lung, kidney, liver, pancreas, intestine, striated muscle and spleen tissues. It is also overexpressed in gynecological tumor samples, suggesting a role in breast and ovarian tumorigenesis.

**SPECIFICITY**

This antibody specifically reacts with FGFR4 of human origin; non cross-reactive with Flg, Bek or FGFR3.

The antibody can be used in Western blotting, immunoprecipitation and immunohistochemistry.

**IMMUNOGEN**

A peptide mapping at the carboxy terminus of FGFR4 of human origin.

**STORAGE**

This antibody is stable for 24 months when stored at 2-8°C.

**REFERENCES**

1. Dionne, C.A., Crumley, G., Bellot, F., Kaplow, J.M., Searfoss, G., Ruta, M., Burgess, W.H., Jaye, M., and Schlessinger, J. 1990. Cloning and expression of two distinct high affinity receptors cross-reacting with acidic and basic fibroblast growth factors. *EMBO J.* 9: 2685-2692.
2. Keegan K, Johnson DE, Williams LT, Hayman MJ. (1991) Isolation of an additional member of the fibroblast growth factor receptor family, FGFR-3. *Proc Natl Acad Sci U S A.* 88:1095-9.
3. Jaakkola, S., Salmikangas, P., Nylund, S., Partanen, J., Armstrong, E., Pyrhonen, S., Lehtovirta, P. and Nevanlinna, H. (1993) Amplification of *fgfr4* gene in human breast and gynecological cancers. *Int. J. Cancer* 54, 378-382
4. Tavormina, P.L., Shiang, R., Thompson, L.M., Zhu, Y.Z., Wilkin, D.J., Lachman, R.S., Wilcox, W.R., Rimoin, D.L., Cohn, D.H., and Wasmuth, J.J. 1995. Thanatophoric dysplasia (types I and II) caused by distinct mutations in fibroblast growth factor receptor 3. *Nat. Genet.* 9: 321-328.
5. Bellus, G.A., McIntosh, I., Smith, E.A., Aylsworth, A.S., Kaitila, I., Horton, W.A., Greenhaw, G.A., Hecht, J.T., and Francomano, C.A. 1995. A recurrent mutation in the tyrosine kinase domain of fibroblast growth factor receptor 3 causes hypochondroplasia. *Nat. Genet.* 10: 357-359.

6. Meyers, G.A., Orlow, S.J., Munro, I.R., Przylepa, K.A., and Jabs, E.W. 1995. Fibroblast growth factor receptor 3 (FGFR3) transmembrane mutation in Crouzon syndrome with acanthosis nigricans. *Nat. Genet.* 11: 462-464.
7. Cappellen, D., De Oliveira, C., Ricol, D., de Medina, S., Bourdin, J., Sastre-Garau, X., Chopin, D., Thiery, J.P., and Radvanyi, F. 1999. Frequent activating mutations of FGFR3 in human bladder and cervix carcinomas. *Nat. Genet.* 23: 18-20.
8. Hart, K.C., Robertson, S.C., Kanemitsu, M.Y., Meyer, A.N., Tynan, J.A. and Donoghue, D.J. (2000) Transformation and Stat activation by derivatives of FGFR1, FGFR3, and FGFR4. *Oncogene* 19, 3309-3320

**PRODUCTS FROM HYPROMATRIX, INC.****A. AntibodyArray™s:**

1. Signal Transduction AntibodyArray™  
Catalog Number HM3000
2. Apoptosis AntibodyArray™  
Catalog Number HM4000
3. Cell Cycle AntibodyArray™  
Catalog Number HM5000

**B. Staining AntibodyArray™s**

1. Staining AntibodyArray™ I  
Catalog Number HM8100
2. AntibodyArray Staining Apparatus  
Catalog Number HM8000

**C. Antibodies****1. HRP-conjugated antibodies**

- anti-phosphotyrosine  
Catalog Number HM2040
- anti-phosphoserine  
Catalog Number HM2070
- anti-phosphothreonine  
Catalog Number HM2090

and more...

**2. Primary antibodies**

Hypromatrix offers a variety of high quality antibodies. For a complete list of antibodies and their specificities, please visit our web site at [www.hypromatrix.com](http://www.hypromatrix.com).

**CONTACT**

**Hypromatrix, Inc.**  
100 Barber Avenue  
Worcester, MA 01606  
USA

Tel: 508-856-7900  
Fax: 508-302-0748  
Email: [contact@hypromatrix.com](mailto:contact@hypromatrix.com)  
Web: [www.hypromatrix.com](http://www.hypromatrix.com)