

## Monoclonal Antibody to CD117 / c-kit - FITC

<b>Alternate names:</b>	KIT, Mast/stem cell growth factor receptor, Proto-Oncogene Tyrosine-Protein Kinase, SCFR
<b>Catalog No.:</b>	AM08136FC-N
<b>Quantity:</b>	0.5 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	c-Kit is a transmembrane tyrosine kinase encoded by the cKit proto oncogene. c-Kit acts to regulate a variety of biological responses including cell proliferation, apoptosis, chemotaxis and adhesion. Ligand binding to the extracellular domain leads to autophosphorylation on several tyrosine residues within the cytoplasmic domain, and activation. Mutations in c-Kit have been found to be important for tumor growth and progression in a variety of cancers including mast cell diseases, gastrointestinal stromal tumor, acute myeloid leukemia, Ewing sarcoma and lung cancer. Phosphorylation at tyrosine 721 of c-Kit allows binding and activation of PI3 kinase.
<b>Uniprot ID:</b>	<a href="#">Q08156</a>
<b>NCBI:</b>	<a href="#">NP_989692.1</a>
<b>GeneID:</b>	<a href="#">378783</a>
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Clone:</b>	kit2c75
<b>Immunogen:</b>	Sp2/0 cells, Sp/chkit4A4, transfected with Chicken c-kit cDNA. <b>Remarks:</b> The amino acid sequence of Chicken c-kit shows 63% identity to Mouse c-Kit and exhibits similar expression patterns in RNA blot analysis suggesting similar biological roles. (Ref.1)
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Buffer System:</b> PBS containing 0.09% Sodium Azide as preservative. <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	<b>Flow Cytometry:</b> < / = 1 µg/10e6 cells. (Ref.6-10) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognizes Chicken c-Kit. <b>Species:</b> Chicken. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or in (aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**For research and in vitro use only. Not for diagnostic or therapeutic work.**  
Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

Antibody Hotline - Technical Questions - Antibody Location Service  
Free Call: 0800-2274746 (Germany only) - [www.acris-antibodies.com](http://www.acris-antibodies.com)

- General Readings:**
1. Sasaki, E., H. Okamura, T. Chikamune, Y. Kanai, M. Watanabe, M. Naito, and M. Sakurai. 1993. *Gene*. 128:257.
  2. Yee, N.S., I. Paek, and P. Besmer. 1994. *J. Exp. Med.* 179:1994.
  3. Iemura, A., M. Tsai, A. Ando, B.K. Wershil, and S.J. Galli. 1994. *Am. J. Pathol.* 144:321.
  4. Blume-Jensen, P., L. Claesson-Welsh, A. Siegbahn, K.M. Zsebo, B. Westermark, and C.H. Heldin. 1991. *EMBO J.* 10:4121.
  5. Kinashi, T. and T.A. Springer. 1994. *Blood* 83:1033.
  6. Vainio, O., D. Dunon, F. Aissi, J.P. Dangy, K.M. McNagny, and B.A. Imhof. 1996. *J. Cell Biol.* 135:1655.
  7. Lampisuo, M., K. Katevuo, and O. Lassila. 1998. *Scand. J. Immunol.* 48:52.
  8. Lampisuo, M. J. Liippo, O. Vainio, K.M. McNagny, J. Kulmala, and O. Lassila. 1999. *Int. Immunol.* 11:63.
  9. Schulte, C.E., M. von Lindern, P. Steinlein, H. Beug, and L.M. Wiedemann. 2002. *EMBO J.* 21:4297.
  10. Katevuo, K., B.A. Imhof, R. Boyd, A. Chidgey, A. Bean, D. Dunon, T.W. Gobel, and O. Vainio. 1999. *J. Immunol.* 162:5685.

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