

## Acris Antibodies, Inc.

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## **Acris Antibodies GmbH**

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

Alternate names: KIT, Mast/stem cell growth factor receptor, Proto-Oncogene Tyrosine-Protein Kinase, SCFR

Catalog No.: AM05206FC-N
Quantity: 100 Tests
Concentration: 100 Tests/vial

**Background:** 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.

Uniprot ID: P10721

NCBI: NP 000213.1

GenelD: <u>3815</u>

Host / Isotype: Mouse / IgG1
Clone: NU-c-kit

Immunized with transfected cells with c-kit DNA in human leukemia cells (UT-7).

Remarks: Molecular Weight: 145kDa.

Format: State: Liquid (sterile filtered) IgG fraction.

Buffer System: PBS containing 0.2% carriers protein and 0.08% Sodium Azide as

preservative. **Label:** FITC

Applications: Flow Cytometry: Use 10 μl per 1 x 10<sup>6</sup> PBMC in 100 μl PBS or 10 μl per 100 μl whole blood.

Monitoring of CD34-positive cells. Analysis of 8% of myelomonocytes.

Study of hematopoietic stem cell differentiation and proliferatiuon.

Study of the c-kit gene product (SCF receptor).
Study of a part of acute myeloblastic leukemia cells.
Study of chronic myeloblastic leukemia cells.

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com



## AM05206FC-N: Monoclonal Antibody to CD117 / c-kit - FITC

**Specificity:** This CD117 antibody reacts against c-kit gene product (SCF receptor).

CD117 reacts with 8% of myelomonocytes and 75% of CD34-positive cells. The

hematopoietic stem cells are included in this fraction and therefore, this gene product is

considered to have an important function for differentiation and proliferation of

hematopoietic cells. CD117 also reacts with placenta, brain, a part of acute myeloblastic leukemia cells and chronic myeloblastic leukemia cells, but not with acute lymphoblastic

leukemia cells. **Species:** Human.

Other species not tested.

**Storage:** Store the antibody undiluted at 2-8°C.

DO NOT FREEZE!

Shelf life: One year from despatch.

**Protocols:** PBMC:

Count the number of positive cells in peripheral blood.

Add 10 µl of Mab to 50 µl suspended lymphocyte solution at 2 x 10e7.

Mix gently and incubate for 15 minutes at 2-8°C.

Wash twice with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and

analyze.

See instrument manufacturers instructions for Lysed Whole Blood and Immunofluorescence analysis with a flow cytometer or microscope.



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