

Monoclonal Antibody to CD117 / c-kit - PE

Alternate names:	KIT, Mast/stem cell growth factor receptor, Proto-Oncogene Tyrosine-Protein Kinase, SCFR
Catalog No.:	AM05206RP-N
Quantity:	100 Tests
Concentration:	Lot specific
Background:	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. MW is 145kDa.
Uniprot ID:	P10721
NCBI:	NP_000213.1
GeneID:	3815
Host / Isotype:	Mouse / IgG1
Clone:	NU-c-kit
Immunogen:	Immunized with transfected cells with c-kit DNA in human leukemia cells (UT-7).
Format:	State: Liquid purified IgG fraction. Buffer System: PBS containing 0.2% protein carrier and 0.08% Sodium Azide as preservative. Label: PE
Applications:	Flow Cytometry. Monitoring of CD34-positive cells. Analysis of 8% of myelomonocytes. Study of hematopoietic stem cell differentiation and proliferation. 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.
Specificity:	CD117 reacts against c-kit gene product (SCF receptor). Species: Human. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C. Do Not Freeze! 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 or on request.

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

Protocols:

PBMC:

Count the number of positive cells in peripheral blood.

Add 10 µl of Mab to 50 µl suspended lymphocyte solution at 2×10^7 .

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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