

## Monoclonal Antibody to CD45 / LCA - APC

<b>Alternate names:</b>	L-CA, Leukocyte common antigen, PTPRC, Receptor-type tyrosine-protein phosphatase C, T200
<b>Catalog No.:</b>	AM05192AC-N
<b>Quantity:</b>	100 Tests
<b>Concentration:</b>	Lot specific
<b>Background:</b>	Identification of all human leukocytes, lymphocytes, monocytes, polymorphonuclear cells, eosinophils and basophils in peripheral blood expressing the 180-220 kD M.W. T200 family surface antigen. CD45 is also present on thymus, spleen, tonsil and progenitor cells in bone marrow.
<b>Uniprot ID:</b>	<a href="#">P08575</a>
<b>NCBI:</b>	<a href="#">NP_002829.2</a>
<b>GeneID:</b>	<a href="#">5788</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	BHPT-1
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction. <b>Purification:</b> Protein A/G Chromatography <b>Buffer System:</b> PBS containing 0.2% protein carrier and 0.08% Sodium Azide as preservative. <b>Label:</b> APC – Allophycocyanin conjugates are analyzed in multi-color Flow Cytometry with instruments equipped with a second laser and proper filters. Laser excitation is at 633 nm with a Helium Neon (HeNe) laser or a 600-640 nm (633 nm) range for a Dye laser. Peak fluorescence emission is at 660 nm
<b>Applications:</b>	Flow Cytometry. Monitoring of Leukocyte cell subsets in peripheral blood. Characterization of subtypes of leukemia's and lymphomas. Study of AIDS virus infection. Studies of progenitor cells in bone marrow. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody reacts with Leukocyte (HLc-1). <b>Species:</b> Human. Other species not tested.

**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)



**Storage:**

Store the antibody undiluted at 2-8°C.

**DO NOT FREEZE!**

Shelf life: One year from despatch.

**General Readings:**

1. Leukocyte Typing IV: White Cell Differentiation Antigens, Schwinzer R. Cluster report: CD45/CD45R, Knapp W., Dorken B., Gilks W.R., et al, eds. Oxford University Press; 1989:628-634
2. Association of CD2 and CD45 on human T lymphocytes. Schraven B., Samstag Y., Altevogt P., Meuer S.C., Nature 1990 May; 345(6270):71-4

Cy-5 Portions of this product are manufactured under license from Carnegie Mellon University, U.S. Patent Number 5,268,486.

**Protocols:**

**PBMC:**

Add 10 ul of MAB/10e6 PBMC in 100 ul PBS.

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.

**WHOLE BLOOD:**

Add 10 ul of MAB/100 ul of whole blood.

Mix gently and incubate for 15 minutes at room temperature (20°C).

Lyse the whole blood.

Wash once 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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