

## Monoclonal Antibody to CD45 / LCA (CD45RA) - Purified

<b>Alternate names:</b>	L-CA, Leukocyte common antigen, PTPRC, Receptor-type tyrosine-protein phosphatase C, T200
<b>Catalog No.:</b>	AM05193PU-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	Lot specific
<b>Background:</b>	CD45RA antigen is a member of the CD45 antigen family that also includes CD45, CD45RO, and CD45RB antigens. CD45RA is expressed on approximately 75% of CD8 lymphocytes and 50% of CD4 lymphocytes, all B cells and NK Cells. CD45RA antigen is expressed on naive T lymphocytes, antigen density decreases upon in vitro activation. A decrease antigen density has been demonstrated for CD4+CD45RA+subset with active multiple sclerosis.
<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>	BHKG-2
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction. <b>Buffer System:</b> PBS containing 0.08% Sodium Azide as preservative.
<b>Applications:</b>	Flow Cytometry. Monitoring of Leucocyte cells subsets in peripheral blood. Characterization of subtypes of leukemias and lymphomas. Studies of AIDS virus infection. Studies of multiple sclerosis and other autoimmune disease. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	CD45RA recognizes Mr. 220-kda of the Leucocyte Common Antigen (LCA). <b>Species:</b> Human. Other species not tested.
<b>Storage:</b>	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: One year from despatch.
<b>General Readings:</b>	1. Leucocyte 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. Yamada A, Kaneyuki T, Hara A, Rothstein DM, Yokoyama MM. CD45 isoform expression

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on human neonatal T cells: expression and turnover of CD45 isoforms on neonatal versus adult T cells after activation. *Cell Immunol.* 1992 Jun;142(1):114-24. PubMed PMID: 1534035.

3. Deans JP, Serra HM, Shaw J, Shen YJ, Torres RM, Pilarski LM. Transient accumulation and subsequent rapid loss of messenger RNA encoding high molecular mass CD45 isoforms after T cell activation. *J Immunol.* 1992 Mar 15;148(6):1898-905. PubMed PMID: 1531846.

4. Master PS, Richards SJ, Roberts BE, Scott CS. Patterns of membrane CD45 isoform expression by leukaemic blasts and normal mature myeloid cells. *Int J Hematol.* 1992 Jun;55(3):235-42. PubMed PMID: 1386761.

5. Fujii Y, Okumura M, Inada K, Nakahara K, Matsuda H. CD45 isoform expression during T cell development in the thymus. *Eur J Immunol.* 1992 Jul;22(7):1843-50. PubMed PMID: 1378021.

6. Functional subsets of T cells defined by isoforms of CD45 *Biochem Soc Trans* 1992 Feb;20(1):184-7. Beverley PC; Daser A; Michie CA; Wallace DL.

**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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