

Monoclonal Antibody to CD45 / LCA (CD45RB) - Purified

Alternate names:	L-CA, Leukocyte common antigen, PTPRC, Receptor-type tyrosine-protein phosphatase C, T200
Catalog No.:	AM08045PU-N
Quantity:	0.5 mg
Concentration:	0.5 mg/ml
Background:	<p>CD45RB is an isoform of CD45 with exon 5 splicing (encodes B determinant). It is a 220 kD glycoprotein expressed on peripheral B cells, naïve T cells, thymocytes, weakly on macrophages, and dendritic cells. It plays a critical role in TCR and BCR signaling. As T cells become activated and progress from naïve to memory cells, CD45RB expression is downregulated. Additionally, functionally distinct CD4 T cell subsets, which secrete differing cytokine profiles, can be separated by CD45RB intensity. The primary ligands for CD45 are galectin-1, CD2, CD3, CD4 and Thy-1.</p> <p>Distribution: Peripheral B cells, naïve T cells, most thymocytes, low density on macrophages and dendritic cells.</p> <p>Function: Phosphatase, T cell development and activation Structure: Phosphatase receptor (CD45 gene exon 5), 220 kD</p>
Uniprot ID:	P06800
NCBI:	10090
Host / Isotype:	Rat / IgG2a
Clone:	C363.16A
Immunogen:	Cloned mouse Th2 cell lines. (Ref.1)
Format:	<p>State: Liquid purified Ig fraction.</p> <p>Buffer System: 100 mM Borate Buffered Saline, pH 8.2. No preservatives or amine-containing buffer salts added.</p>
Applications:	<p>Flow Cytometry. (Ref.1-3)</p> <p>Immunoprecipitation. (Ref.2)</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Specificity:	<p>This antibody is specific to an exon B-dependent epitope of CD45 glycoprotein.</p> <p>Species: Mouse. Other species not tested.</p>
Storage:	<p>Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.</p> <p>Shelf life: one year from despatch.</p>

- General Readings:**
1. Bottomly, K., M. Luqman, L. Greenbaum, S. Carding, J. West, T. Pasqualini, and D.B. Murphy. 1989. Eur. J. Immunol. 19:617.
 2. Hathcock, K.S., G. Laslo, H.B. Dickler, S.O. Sharrow, P. Johnson, I.S. Trowbridge, and R.J. Hodes. 1992. J. Immunol. 148:19.
 3. Johnson, P., L. Greenbaum, K. Bottomly, and I.S. Trowbridge. 1989. J. Exp. Med. 169:1179.
 4. Birkeland, M.L., et al. 1988. J. Mol. Cell. Immunol. 4:71.

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
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