

## Monoclonal Antibody to CD45 / LCA (CD45RC) - FITC

<b>Alternate names:</b>	L-CA, Leukocyte common antigen, PTPRC, Receptor-type tyrosine-protein phosphatase C, T200
<b>Catalog No.:</b>	AM08070FC-S
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.5 mg/ml
<b>Background:</b>	The CD45 family of cell surface glycoprotein antigens exist as a set of isoforms. (Ref.1-4) The patterns of monoclonal antibody recognition of the CD45 phenotypes can be restricted (CD45RA, RB and RC), or broader, such as the CD45 T 200 species (See also products AM08044). (Ref.1-4)The "restricted" subsets of this group arise as a result of translation of alternatively spliced mRNAs from exons A, B and C (exons 4, 5 and 6), where exons 3-15 encode the extracellular domain of the CD45 molecule. The restricted epitopes are differentially expressed on T and B lymphocytes, including functionally distinct T cells. CD45 (LCA) is a transmembrane phosphotyrosine phosphatase expressed on leucocytes. Myeloid cells do not express the RC isoform.
<b>Uniprot ID:</b>	<a href="#">P06800</a>
<b>NCBI:</b>	<a href="#">10090</a>
<b>Host / Isotype:</b>	Rat / IgG2a
<b>Clone:</b>	C455.1F
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Buffer System:</b> PBS containing 0.09% Sodium Azide as preservative. <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	<b>Flow Cytometry:</b> Identification and enumeration of CD45RC+ cells (< / = 1 µg/10e6 cells). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises an exon C-dependent epitope of CD45 glycoprotein. <b>Species:</b> Mouse. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or in (aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Hathcock, K.S., Laslo, G., Dickler, H.B., Sharrow, S.O., Johnson, P. Trowbridge, I.S. and Hodes, R.J. 1992. Immunol. 148:19. 2. Bottomly, K., M. Luqman, L. Greenbaum, S. Carding, J. West, T. Pasqualini, and D.B. Murphy. 1989. Eur. J. Immunol. 19:617. 3. Johnson, P., L. Greenbaum, K. Bottomly, et al. 1989. J. Exp. Med. 169:1179.

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4. Birkeland, M.L., et al. 1988. J. Mol. Cell. Immunol. 4:71.

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