

## Monoclonal Antibody to CD45 / LCA - Purified

<b>Alternate names:</b>	L-CA, Leukocyte common antigen, PTPRC, Receptor-type tyrosine-protein phosphatase C, T200
<b>Catalog No.:</b>	SM274PS
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	The leucocyte common antigen consists of a family of heavily glycosylated membrane glycoproteins of molecular weight 180 - 240kDa. CD45 isoforms play complex roles by T-cell and B-cell antigen receptor signal transduction.
<b>Uniprot ID:</b>	<a href="#">P04157</a>
<b>NCBI:</b>	<a href="#">NP_001103357.1</a>
<b>GeneID:</b>	<a href="#">24699</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	OX-1
<b>Immunogen:</b>	Rat thymocyte membrane glycoproteins. Spleen cells from BALB/c mice were fused with cells of the NS1 mouse myeloma cell line.
<b>Format:</b>	<b>State:</b> Liquid purified IgG containing 0.09% Sodium Azide <b>Purification:</b> Affinity chromatography on Protein G
<b>Applications:</b>	Flow Cytometry: 1/100; Use 10µl of the suggested working dilution to label 10e6 cells in 100µl. Immunohistochemistry on frozen sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises CD45. Antibodies recognising a common epitope on all of these isoforms are termed CD45, whilst those recognising only individual isoforms are termed CD45RA, CD45RO etc. OX-1 reacts with all forms of CD45 expressed by all haematopoietic cells, except erythrocytes. <b>Species:</b> Rat. 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. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General References:</b>	1. Sunderland, C. A. et al. (1979) Purification with monoclonal antibody of a predominant leukocyte-common antigen and glycoprotein from rat thymocytes. Eur. J. Immunol. 9:155-159 2. Woollett, G. R. et al. (1985) Molecular and antigenic heterogeneity of the rat

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leukocyte-common antigen from thymocytes and T and B Lymphocytes. Eur. J. Immunol. 15:168-173

3. Martin, A. et al. (1995) Passive dual immunization against tumour necrosis factor-alpha (TNF-alpha) and IL-1 beta maximally ameliorates acute aminonucleoside nephrosis. Clin. Exp. Immunol. 99:283-288

4. Sato, K et al. (2001) Carbon monoxide generated by heme oxygenase-1 suppresses the rejection of mouse-to-rat cardiac transplants. J. Immunol. 166:4185-4194

5. Murakami, K. et al. (2000) Regulation of mast cell signalling through high-affinity IgE receptor by CD45 protein tyrosine phosphatase. Int. Immunol. 12(2):169-176.

6. Standring, R. et al. (1978) The predominant heavily glycosylated glycoproteins at the surface of rat lymphoid cells are differentiation antigens. Eur. J. Immunol. 8 (12):832-9.

7. Giezeman-Smits, K.M. et al. (1999) The regulatory role of CD45 on rat NK cells in target cell lysis. J. Immunol. 163(1):71-6.

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