

Monoclonal Antibody to CD45 / LCA - FITC

Alternate names:	L-CA, Leukocyte common antigen, PTPRC, Receptor-type tyrosine-protein phosphatase C, T200
Catalog No.:	SM274FX
Quantity:	0.5 mg
Concentration:	0.5 mg/ml
Background:	The leucocyte common antigen consists of a family of heavily glycosylated membrane glycoproteins of molecular weight 180 - 240kDa. CD45 isoforms play complex roles in T-cell and B-cell antigen receptor signal transduction.
Uniprot ID:	P04157
NCBI:	NP_001103357.1
GeneID:	24699
Host / Isotype:	Mouse / IgG1
Clone:	OX-1
Immunogen:	Rat thymocyte membrane glycoproteins. Spleen cells from immunised BALB/c mice were fused with cells of the NS1 mouse myeloma cell line.
Format:	State: Liquid purified IgG fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: Use 10 µl of 1/50 diluted antibody to label 10e6 cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	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. Species: Rat. Other species not tested.
Storage:	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.

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
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

- General References:**
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 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

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