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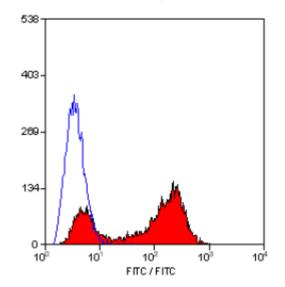
	Monoclonal Antibody to CD45 / LCA (CD45R) - FITC
Alternate names:	L-CA, Leukocyte common antigen, PTPRC, Receptor-type tyrosine-protein phosphatase C, T200
Catalog No.:	SM034F
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	CD45R is a member of the protein tyrosine phosphatase (PTP) family and a major cell surface glycoprotein. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. CD45R represents a restricted form of the CD45 family which primarily recognizes only cells of B lineage from proB cell through mature B lymphocytes and, prior to the availability of anti CD19 MAbs, was commonly used as a pan B cell marker. It also reacts with certain activated T cells, as well as non MHC restricted lytically active lymphokine activated killer (LAK) cells. CD45R contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains. It is specifically expressed in hematopoietic cells and has been shown to be an essential regulator of T and B cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signaling. CD45R also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling. Four alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported.
Uniprot ID:	<u>P06800</u>
NCBI:	<u>10090</u>
Host / Isotype:	Rat / IgG2a
Clone:	RA3-6B2
Immunogen:	Mouse pre-B tumour cells (RAW112).
Format:	 State: Liquid purified IgG fraction. Purification: Affinity Chromatography on Protein G Buffer System: PBS, pH 7.4 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 neat antibody to label 10e6 cells in 100 μl. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

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

	SM034F: Monoclonal Antibody to CD45 / LCA (CD45R) - FITC
Specificity:	This antibody reacts with CD45R a form of the CD45 antigen expressed by B cells and lytically active subsets of NK cells and non-MHC restricted CTLs. Clone RA3-6B2 Immunoprecipitates the high molecular weight form of CD45 (220kD). Species: Mouse, Human and Cat, Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
General References:	 Coffman, R. (1982) Surface antigen expression and immunoglobulin rearrangement during mouse pre-B cell development. Immunol. Rev. 69: 5-23. Rosmalen, J.G.M. et al. (2000) Subsets of macrophages and denritic cells in nonobese diabetic mouse pancreatic inflammatory infiltrates: correlation with the development of diabetes - Lab. Invest. 80:23-30. Whiteland, J.L. et al. (1995) Immunohistochemical detection of T-Cell subsets and other leucocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies. J. Histochem. Cytochem. 43: 313-320. Monteith. C.E. et al. (1996) Identification of monoclonal antibodies for immunohistochemical staining of feline B lymphocytes in frozen and formalin fixed paraffin embedded tissues. Can. J. Vet. Res. 60: 193-198.

Pictures:



Staining of mouse spleen cells with Rat Anti Mouse CD45R-FITC.