

Monoclonal Antibody to CD45 / LCA (CD45RO) - Purified

Alternate names:	L-CA, Leukocyte common antigen, PTPRC, Receptor-type tyrosine-protein phosphatase C, T200
Catalog No.:	SM1117PT
Quantity:	25 µg
Concentration:	1.0 mg/ml
Background:	The antigen is expressed by a functional subset of T cells with memory phenotype. In peripheral blood UCHL1 stains 40-80% of lymphocytes, and all monocytes and granulocytes.
Uniprot ID:	P08575
NCBI:	NP_002829.2
GeneID:	5788
Host / Isotype:	Mouse / IgG2a
Clone:	UCHL1
Immunogen:	Human IL-2 dependent T-Cells. Remarks: Spleen cells from immunised mice were fused with cells of the mouse P3/NS1/1-Ag4-1 myeloma cell line.
Format:	State: Liquid purified IgG fraction. Purification: Affinity Chromatography on Protein G. Buffer System: PBS containing 0.09% Sodium Azide as preservative.
Applications:	Flow Cytometry: Use 10 µl of 1/25-1/50 diluted antibody to label 10e6 cells in 100 µl. Immunoprecipitation. Immunohistochemistry on Frozen Sections. Immunohistochemistry on Paraffin Sections: This product does not require protein digestion pre-treatment of paraffin sections and does not require antigen retrieval using heat treatment prior to staining of paraffin sections. <i>Recommended Positive Control Tissue:</i> Tonsil. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises the low molecular weight isoform (180kD) of the Leucocyte Common Antigen (LCA). Species: Human and Canine. 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. Shelf life: one year from despatch

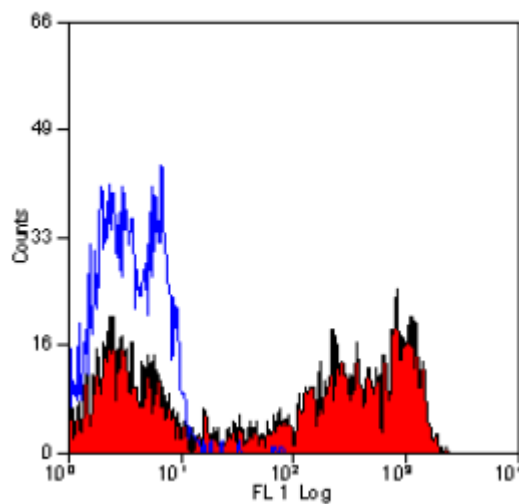
For research and in vitro use only. Not for diagnostic or therapeutic work.

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. Smith, S.H. et al. (1986) Functional subsets of human helper-inducer cells defined by a new monoclonal antibody, UCHL1. *Immunology* 58: 63-70.
 2. Norton, A.J. et al. (1986) Monoclonal antibody (UCHL1) that recognises normal and neoplastic T-cells in routinely fixed tissues. *J. Clin. Pathol.* 39: 399-405.
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 5. Terry, L.A. et al. (1987) Phenotypic heterogeneity of the CD4+ and CD8+ subsets. *Leucocyte Typing III*. McMichael, A.J., Beverley, P.C.L. et al. eds. University Press. pp 225-227.
 6. Akbar, A.N. et al. (1988) Loss of CD45R and gain of UCHL1 reactivity is a feature of primed T-cells. *J. Immunol.* 140: 2171 - 2178
 7. Terry, L.A. et al. (1988) The monoclonal antibody, UCHL1, recognizes a 180,000 MW component of the human leucocyte-common antigen, CD45 *Immunology* 64: 331-336.
 8. Beverley, P.C.L. et al. (1988) Phenotypic diversity of the CD45 antigen and its relation to function. *Immunology, Suppl.* 1: 3-5.
 9. Merckenschlager, M. et al. (1988) Limited dilution analysis of proliferative responses in human lymphocyte populations defined by the monoclonal antibody UCHL1: implications for differential CD45 expression in T-cell memory formation. *Eur. J. Immunol.* 18: 1653-1661.
 10. Cavers, M. et al. (2002) Differential expression of beta1 and beta2 integrins and L-selectin on CD4+ and CD8+ T lymphocytes in human blood: comparative analysis between isolated cells, whole blood samples and cryopreserved preparations. *Clin Exp Immunol.* 127: 60-5.
 11. Hutnick, N.A. et al. (2010) Vaccination with Ad5 vectors expands Ad5-specific CD8 T cells without altering memory phenotype or functionality. *PLoS One.* 5: e14385.
 12. Leigh, J.E. et al. (2006) Characterization of the immune status of CD8+ T cells in oral lesions of human immunodeficiency virus-infected persons with oropharyngeal Candidiasis. *Clin Vaccine Immunol.* 13: 678-83.

Pictures:



Staining of human peripheral blood lymphocytes with Mouse Anti Human CD45RO (SM1117PS).

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