

Monoclonal Antibody to CD45 / LCA - Purified

Alternate names:	L-CA, Leukocyte common antigen, PTPRC, Receptor-type tyrosine-protein phosphatase C, T200
Catalog No.:	AM05655PU-N
Quantity:	0.2 mg
Concentration:	1.0 mg/ml
Background:	CD45 is a complex molecule existing in a number of isoforms. Antibodies recognising a common epitope on all of these isoforms are termed CD45 whilst those recognising only individual isoforms are termed CD45RA or CD45RO etc.
Uniprot ID:	P08575
NCBI:	NP_002829.2
GeneID:	5788
Host / Isotype:	Mouse / IgG2b
Clone:	135-4C5
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
Applications:	Western Blot: Detects a band/s of approximately 180kDa, 200kDa, 210kDa and 220kDa in B-cell lysates. Flow Cytometry: Use 10 µl of 1/10-1/100 diluted antibody to label 1x10 ⁶ cells in 100 µl. This antibody is routinely tested in Flow Cytometry on Human peripheral blood leucocytes. Immunohistochemistry on Frozen Sections: 1/200. Immunohistochemistry on Paraffin Sections: 1/200. Heat Antigen retrieval treatment prior to staining with Sodium citrate buffer pH 6.0 is recommended. <i>Recommended Positive Control:</i> Human tonsil tissue. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes the CD45 cell surface antigen, also known as the leucocyte common antigen (LCA). Clone 135-4C5 reacts with all forms of CD45 expressed by all haematopoietic cells, except erythrocytes, having a higher level of expression on lymphocytes than on granulocytes. Species: Human. 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 Readings:**
1. Alsinet, E. et al. (1990) Differential effects of anti-CD45 monoclonal antibody on human B cell proliferation: a monoclonal antibody recognizing a neuraminidase-sensitive epitope of the T200 molecule enhances antiimmunoglobulin-induced proliferation. *Eur. J. Immunol.* 20: 2801-2804
 2. del Conde, I. et al. (2005) Tissue-factor-bearing microvesicles arise from lipid rafts and fuse with activated platelets to initiate coagulation. *Blood.* 106: 1604-1611

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