

## 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>	SM1744PT
<b>Quantity:</b>	25 µg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	CD45 is a family of single chain transmembrane glycoproteins consisting of at least four isoforms (220, 205, 190, 180 kDa) which share a common large intracellular domain. Their extracellular domains are heavily glycosylated. The different isoforms are produced by alternative messenger RNA splicing of three exons of a single gene on chromosome 1. CD45 is expressed on cells of the human hematopoietic lineage (including hematopoietic stem cells) with the exception of mature red cells. It is not detected on differentiated cells of other tissues. It is likely that CD45 plays an important role in signal transduction, inhibition or upregulation of various immunological functions. Antibodies recognising a common epitope on all of the isoforms are termed CD45 whilst those recognising only individual isoforms are termed CD45RA or CD45RO etc.
<b>Uniprot ID:</b>	<a href="#">P08575</a>
<b>NCBI:</b>	<a href="#">NP_002829.2</a>
<b>GeneID:</b>	<a href="#">5788</a>
<b>Host / Isotype:</b>	Rat / IgG2b
<b>Clone:</b>	YTH24.5
<b>Immunogen:</b>	Human T lymphocytes. Spleen cells from an immunised DA rat were fused with cells of the rat Y3/Ag1.2.3 myeloma cell line.
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction. <b>Purification:</b> Affinity Chromatography on Protein A. <b>Buffer System:</b> PBS containing 0.09% Sodium Azide as preservative.
<b>Applications:</b>	Flow Cytometry: 1/10-1/100; Use 10 µl of the suggested working dilution to label 10e6 cells in 100µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises the leukocyte common antigen CD45, expressed on all cells of haematopoietic origin except for erythrocytes. <b>Species:</b> Human. Other species not tested.

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

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

Antibody Hotline - Technical Questions - Antibody Location Service  
Free Call: 0800-2274746 (Germany only) - [www.acris-antibodies.com](http://www.acris-antibodies.com)

**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.

**General References:** 1. Bindon, C.I. et al. (1985) Therapeutic potential of monoclonal antibodies to the leukocyte common antigen: synergy and interference in complement-mediated lysis. *Transplantation* 40: 538-544.

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