

## Monoclonal Antibody to CD45 / LCA - Purified

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| <b>Alternate names:</b> | L-CA, Leukocyte common antigen, PTPRC, Receptor-type tyrosine-protein phosphatase C, T200  |
| <b>Catalog No.:</b>     | SM21PT   |
| <b>Quantity:</b>        | 25 µg  |
| <b>Concentration:</b>   | 1.0 mg/ml  |
| <b>Background:</b>      | 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.   |
| <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>  | Mouse / IgG2a  |
| <b>Clone:</b>           | F10-89-4   |
| <b>Immunogen:</b>       | Human T lymphocytes  |
| <b>Format:</b>          | <b>State:</b> Liquid purified IgG<br><b>Purification:</b> Affinity chromatography on Protein G<br><b>Buffer System:</b> Phosphate buffered saline pH7.4 containing 0.09% Sodium Azide  |
| <b>Applications:</b>    | Immunohistochemistry on frozen sections: 1/500 - 1/1000. Immunohistochemistry on paraffin sections: 1/100 - 1/200; This product requires antigen retrieval using heat treatment prior to staining of paraffin sections; 1mM EDTA pH8.0 is recommended for this purpose.<br>Immunoprecipitation.<br>Flow Cytometry: 1/10 - 1/50; Use 10µl of the suggested working dilution to label 10e6 cells in 100µl.<br>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. |
| <b>Specificity:</b>     | This antibody recognises the CD45 cell surface antigen, also known as the leucocyte common antigen (LCA).<br>Clone F10-89-4 reacts with all forms of CD45 expressed by all haematopoietic cells, except erythrocytes, having a higher level of expression on lymphocytes than on granulocytes.<br>This product is routinely tested in flow cytometry on human peripheral blood leucocytes<br><b>Species:</b> Human.<br>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.
- Caution:** (A full Health and Safety assessment is available upon request) This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
- General References:** 1. Dalchau, R. et al. (1980) Monoclonal antibody to a human leukocyte-specific membrane glycoprotein probably homologous to the leukocyte-common (L-C) antigen of the rat Eur. J. Immunol. 10: 737 - 744.  
2. Quenby, S et al. (1999) Pre-implantation endometrial leukocytes in women with recurrent miscarriage. Human Reprod. 14(9):2386 - 2391.

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