SM1723
Acris Antibodies GmbH

US office:
Acris Antibodies, Inc.
San Diego, CA
UNITED STATES
Phone: +1-858-888-7900
Fax: +1-858-888-7904
US-info@acris-antibodies.com

Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info@acris-antibodies.com

Monoclonal Antibody to CD45 / LCA (CD45RC) - Supernatant

Alternate names: L-CA, Leukocyte common antigen, PTPRC, Receptor-type tyrosine-protein phosphatase C, T200

Catalog No.: SM1723

Quantity: 2 ml

Background: CD45 is a family of single chain transmembraneous 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.

Uniprot ID: Q6SZ85

NCBI: 9823

Host / Isotype: Mouse / IgG1

Clone: MIL5

Immunogen: Porcine PBMC. Spleen cells from immunised BALB/c mice were fused with cells of the mouse P3X.63.Ag8 myeloma cell line.

Format: **State:** Liquid Tissue Culture Supernatant containing 0.09% Sodium Azide

Applications: Flow cytometry.
Immunohistochemistry on frozen sections: 1/5.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody recognises CD45RC. MIL5 does not stain B cells in tissue sections.
Species: Pig.
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.

General References:
1. Zuckermann, F. A. et al. (1998) Definition of the specificity of monoclonal antibodies against porcine CD45 and CD45R: report from the CD45/CD45R and CD44 subgroup of the Second International Swine CD workshop. Vet. Immunol. Immunopathol. 60: 367-387.

2. Schnitzlein, W.M. and Zuckermann, F.A. et al. (1998) Determination of the specificity of CD45 and CD45R monoclonal antibodies through the use of transfected hamster cells producing individual porcine CD45 isoforms. Vet. Immunol. Immunopathol. 60: 389-401.
3. Haverson, K. et al. (1999) T cell populations in the pig intestingal lamina propria: memory cells with unusual phenotypic characteristics. Immunology 96: 66-73.
4. Zuckerman, F. A. et al. (2001) Characterisation of monoclonal antibodies assigned to the CD45 subgroup of the third international swine CD workshop. Vet. Immunol. Immunopathol. 80 (1-2): 165 - 74.