

## Monoclonal Antibody to CD45 - Biotin

<b>Alternate names:</b>	CD45R, CD45RA, CD45RB, CD45RO, L-CA, Leukocyte common antigen, PTPRC, T200
<b>Catalog No.:</b>	SM2055B
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1 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>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	1.11.32
<b>Immunogen:</b>	Ovine efferent lymphatic duct lymphocytes. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line.
<b>Format:</b>	<b>State:</b> Liquid purified IgG <b>Purification:</b> Affinity chromatography on Protein G <b>Buffer System:</b> PBS, pH 7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin <b>Label:</b> Biotin
<b>Applications:</b>	Flow Cytometry: Neat - 1/10; Use 10µl 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 CD45 (Leukocyte common antigen), which is expressed on all ovine lymphocytes, macrophages and granulocytes. It immunoprecipitates CD45 molecules of 190kD, 210kD and 225kD from lymph node lysates. <b>Species:</b> Sheep. Other species not tested.
<b>Storage:</b>	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.
<b>General References:</b>	1. Maddox, J. et al. (1985) The sheep analogue of leucocyte common antigen (LCA). Immunology. 55: 347 - 353.

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2. Mackay, C. et al. (1987) A monoclonal antibody to the p220 component of sheep LCA identifies B cells and a unique lymphocyte subset. *Cell. Immunol.* 110: 46 -55.
3. Mackay, C. et al. (1989) Gamma/delta T cells express a unique surface molecule appearing late during thymic development. *Eur. J. Immunol.* 19: 1477 - 1483.
4. Sainte Marie, G. et al. (1962) A paraffin embedding technique for studies employing immunofluorescence. *J. Histochem. Cytochem.* 10: 250

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