

**SM1582****Monoclonal Antibody to CD45 (CD45RA) - Supernatant**

<b>Alternate names:</b>	CD45RA, L-CA, Leukocyte common antigen, PTPRC, T200
<b>Quantity:</b>	2 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>	CA4.1D3
<b>Format:</b>	<b>State:</b> Liquid Tissue Culture Supernatant <b>Buffer System:</b> 0.09% Sodium Azide
<b>Applications:</b>	<b>Flow Cytometry.</b> <b>Immunohistochemistry on Frozen Sections.</b> Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognizes the Canine homologue of CD45RA, clustered at the first International canine leukocyte Antigen Workshop (Cobbold et al. 1994). Clone CA4.1D3 identifies a cell surface glycoprotein expressed by B lymphocytes, a subset of T-lymphocytes, monocytes and thymocytes (Moore et al. 1990). <b>Species:</b> Canine (Dog). Other species not tested.
<b>Storage:</b>	Store 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 Readings:</b>	1. Caniatti M, Roccabianca P, Scanziani E, Paltrinieri S, Moore PF. Canine lymphoma: immunocytochemical analysis of fine-needle aspiration biopsy. <i>Vet Pathol.</i> 1996 Mar;33(2):204-12. PubMed PMID: 8801714. 2. Cobbold S, Metcalfe S. Monoclonal antibodies that define canine homologues of human CD antigens: summary of the First International Canine Leukocyte Antigen Workshop (CLAW). <i>Tissue Antigens.</i> 1994 Mar;43(3):137-54. PubMed PMID: 8091414.