

Product datasheet for **SM1582**

CD45 (CD45RA) Mouse Monoclonal Antibody [Clone ID: CA4.1D3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	CA4.1D3
Applications:	FC, IHC
Recommended Dilution:	Flow Cytometry. Immunohistochemistry on Frozen Sections.
Reactivity:	Canine
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	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).
Formulation:	0.09% Sodium Azide State: Supernatant State: Liquid Tissue Culture Supernatant
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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Background:

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.

Synonyms:

Leukocyte common antigen, L-CA, PTPRC, T200, CD45RA