

Product datasheet for **SM2055B**

CD45 Mouse Monoclonal Antibody [Clone ID: 1.11.32]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1.11.32
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 10µl of neat-1/10 diluted antibody to label 10 ⁶ cells in 100 µl.
Reactivity:	Bovine, Goat, Sheep
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Ovine efferent lymphatic duct lymphocytes. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line.
Specificity:	This antibody recognises the CD45 (Leucocyte 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.
Formulation:	PBS, pH 7.4 containing 0.09% Sodium Azide and 1% BSA Label: Biotin State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Biotin
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.
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, CD45RB, CD45RO, CD45RA, CD45R