

## Product datasheet for **SM279F**

### **Ptprc (CD45RA) Mouse Monoclonal Antibody [Clone ID: OX-33]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OX-33
<b>Applications:</b>	FC
<b>Recommended Dilution:</b>	Flow Cytometry: Use 10 µl of Neat-1/10 diluted antibody to label 10e6 cells in 100µl. this antibody does not always give a clear separation between positives and negatives in some cell preparations; if users find this to be the case we recommend the use of <i>R. Phycoerythrin</i> conjugated reagent SM279R which generally exhibits a peak of higher mean fluorescence.
<b>Reactivity:</b>	Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Purified Rat spleen L-CA. Spleen cells from immunised BALB/c mice were fused with cells of the NSO/U mouse myeloma cell line.
<b>Specificity:</b>	This antibody is directed against a high molecular weight band of the leucocyte common antigen. MRC OX-33 only labels B-cells among thoracic duct lymphocytes with little labelling in bone marrow and none on thymocytes.
<b>Formulation:</b>	PBS, pH 7.2 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: FITC State: Liquid purified IgG fraction. Label: Fluorescein Isothiocyanate Isomer 1
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Affinity Chromatography on Protein G.
<b>Conjugation:</b>	FITC
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.



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<b>Gene Name:</b>	protein tyrosine phosphatase, receptor type, C
<b>Database Link:</b>	<a href="#">Entrez Gene 24699 Rat P04157</a>
<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>Synonyms:</b>	PTPRC, Leukocyte common antigen, L-CA, T200