

Product datasheet for **SM279P**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	OX-33
Applications:	FC, IHC
Recommended Dilution:	Flow Cytometry: Use 10 µl of 1/100 diluted antibody to label 1x10 ⁶ cells in 100 µl. Immunohistochemistry on Frozen and Paraffin Embedded Secions. This clone has been described reacting with paraffin-embedded material following PLP fixation (PeriodateLysine- Paraformaldehyde) (See Whiteland et al., Ref.4).
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified rat spleen leucocyte common antigen. Spleen cells from immunised BALB/c mice were fused with cells of the NSO/U myeloma cell line.
Specificity:	SM279P is directed against a high molecular weight band of the leucocyte common antigen (LCA). OX-33 only labels B-cells among thoracic duct lymphocytes with little labelling in the bone marrow and none on thymocytes (see Ref. 2).
Formulation:	PBS, pH 7.2 containing 0.09% Sodium Azide as preservative State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
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.
Gene Name:	protein tyrosine phosphatase, receptor type, C



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Database Link: [Entrez Gene 24699 Rat P04157](#)

Background: CD45 is a complex molecule, and is comprised of different glycoproteins ranging from 180-240 kDa. Expression of CD45 is found on all hemopoietic cells. Detection of the different isoforms can distinguish between different cell forms i.e. naive T cells and memory T cells. CD45RA is an isoform of the CD45 complex and has restricted expression between different subtypes of lymphoid cells. The functional activity of each CD45 isotype also varies. Antibodies recognising a common epitope on all of these isoforms are termed CD45 whilst those recognising only individual isoforms are termed CD45RA or CD45RO etc.

Synonyms: PTPRC, Leukocyte common antigen, L-CA, T200