

Product datasheet for **SM274R**

Ptprc Mouse Monoclonal Antibody [Clone ID: OX-1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OX-1
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 10 µl of neat antibody to label 10e6 cells in 100 µl. (This product is routinely tested in flow cytometry on rat splenocytes).
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Rat thymocyte membrane glycoproteins.
Specificity:	This antibody recognizes CD45. OX-1 reacts with all forms of CD45 expressed by all haematopoietic cells, except erythrocytes.
Formulation:	PBS, pH 7.4 Label: PE State: Lyophilized purified IgG fraction Stabilizer: 1% BSA, 5% Sucrose Preservative: 0.09% Sodium Azide Label: Phycoerythrin (RPE)
Reconstitution Method:	Restore with 1 ml distilled water.
Conjugation:	PE
Storage:	Store undiluted Prior to and following reconstitution at 2-8°C. DO NOT FREEZE. This product is photosensitive and should be protected from light.
Stability:	Shelf life: One year from despatch.
Gene Name:	protein tyrosine phosphatase, receptor type, C
Database Link:	Entrez Gene 24699 Rat P04157



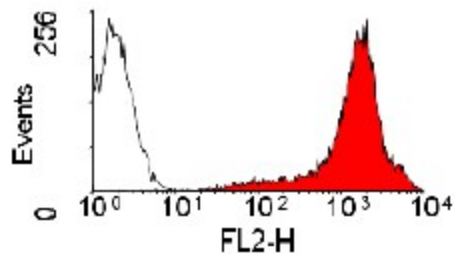
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Background:

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:

PTPRC, Leukocyte common antigen, L-CA, T200

Product images:

Staining of Rat peripheral blood lymphocytes with Mouse anti Rat CD45 -RPE (Cat.-No SM274R).