

Product datasheet for **SM280P**

Ptprc (CD45RC) Mouse Monoclonal Antibody [Clone ID: OX-22]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OX-22
Applications:	FC, IHC
Recommended Dilution:	Flow Cytometry: Use 10 µl of 1/100 diluted antibody to label 10e6 cells in 100 µl. Immunohistochemistry on Frozen Sections: Immunohistochemistry on Paraffin Sections: This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	PHA stimulated rat lymphocytes. Spleen cells from immunised BALB/c mice were fused with cells from the NS1 mouse myeloma cell line.
Specificity:	This antibody recognises CD45RC, the high molecular weight form of the leucocyte common antigen. The antigen is found on B cells, approximately 50% of bone marrow cells, all CD8+ve T cells, but splits CD4+ve T cells into two populations, CD4+CD45RChigh (Th1-like) and CD4+CD45RClow (Th2-like).
Formulation:	Phosphate Buffered Saline, pH 7.4 without preservatives. State: Low Endotoxin State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



[View online »](#)

Gene Name: protein tyrosine phosphatase, receptor type, C

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

Background: The CD45 family of cell surface glycoprotein antigens exist as a set of isoforms. The patterns of monoclonal antibody recognition of the CD45 phenotypes can be restricted (CD45RA, RB and RC), or broader, such as the CD45 T 200 species. The "restricted" subsets of this group arise as a result of translation of alternatively spliced mRNAs from exons A, B and C (exons 4, 5 and 6), where exons 3-15 encode the extracellular domain of the CD45 molecule. The restricted epitopes are differentially expressed on T and B lymphocytes, including functionally distinct T cells. CD45 (LCA) is a transmembrane phosphotyrosine phosphatase expressed on leucocytes. Myeloid cells do not express the RC isoform.

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