

Product datasheet for **SM280**

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: 1/100, use 10 µl of the suggested working dilution to label 10e6 cells in 100 µl. Immunohistochemistry on frozen sections: 1/100 - 1/1000. Immunohistochemistry on paraffin sections: 1/100 - 1/1000; 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: | State: Purified State: Liquid purified IgG containing 0.09% Sodium Azide |
| Concentration: | lot specific |
| Purification: | Affinity chromatography on Protein G |
| Conjugation: | Unconjugated |
| 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. |
| Gene Name: | protein tyrosine phosphatase, receptor type, C |



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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