

Monoclonal Antibody to CD45 / LCA (CD45RC) - Purified

Alternate names:	L-CA, Leukocyte common antigen, PTPRC, Receptor-type tyrosine-protein phosphatase C, T200
Catalog No.:	SM280PX
Quantity:	1 mg
Concentration:	1.0mg/ml
Background:	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).
Uniprot ID:	P04157
NCBI:	NP_001103357
GeneID:	24699
Host / Isotype:	Mouse / IgG1
Clone:	OX-22
Immunogen:	PHA stimulated rat lymphocytes. Spleen cells from immunised BALB/c mice were fused with cells from the NS1 mouse myeloma cell line.
Format:	State: Liquid purified IgG containing 0.09% Sodium Azide Purification: Affinity chromatography on Protein G
Applications:	Flow Cytometry: 1/100; Use 10µl of the suggested working dilution to label 10e6 cells in 100µl. 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. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises CD45RC, the high molecular weight form of the leucocyte common antigen. Species: Rat. Other species not tested.
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. Shelf life: one year from despatch.
General References:	1. Spickett, G.P. et al. (1983) MRC OX-22, a monoclonal antibody that labels a new subset of T lymphocytes and reacts with the high molecular weight form of the leucocyte-common antigen. J. Exp. Med. 158:795-810. 2. Arthur, R.P. and Mason, D.W. (1986) T cells that help B cell responses to soluble antigen

For research and in vitro use only. Not for diagnostic or therapeutic work.

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are distinguishable from those producing interleukin 2 on mitogenic or allogeneic stimulation. J. Exp. Med. 163:774-786.

3. Pelegri, C et al. (2001) Prevention of adjuvant arthritis by the W3/25 anti-CD4 monoclonal antibody is associated with a decrease of blood CD4+CD45RChigh T cells. Clin. Exp. Immunol. 125:470-477.

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