

## Monoclonal Antibody to CD8 - PE

<b>Alternate names:</b>	CD8 alpha chain, CD8A, MAL, T-cell surface glycoprotein CD8 alpha chain, T-lymphocyte differentiation antigen T8/Leu-2
<b>Catalog No.:</b>	SM259R
<b>Quantity:</b>	100 Tests
<b>Background:</b>	The CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell to cell interactions within the immune system. The CD8 antigen, acting as a coreceptor, and the T cell receptor on the T lymphocyte recognize antigen displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. The functional coreceptor is either a homodimer composed of two alpha chains, or a heterodimer composed of one alpha and one beta chain. Both alpha and beta chains share significant homology to immunoglobulin variable light chains.
<b>Uniprot ID:</b>	<a href="#">P07725</a>
<b>NCBI:</b>	<a href="#">NP_113726.1</a>
<b>GeneID:</b>	<a href="#">24930</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	OX-8
<b>Immunogen:</b>	Rat thymocyte membrane glycoproteins. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
<b>Format:</b>	<b>State:</b> Lyophilized purified IgG <b>Purification:</b> Affinity chromatography on Protein G <b>Buffer System:</b> PBS, pH7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin <b>Label:</b> PE – R. Phycoerythrin (RPE) <b>Reconstitution:</b> Restore with 1 ml distilled water
<b>Applications:</b>	<b>Flow Cytometry:</b> Neat - 1/10; Use 10µl of the suggested working dilution to label 10e6 cells in 100µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises the CD8 alpha cell surface antigen, expressed by a subset of T lymphocytes, most thymocytes and the majority of NK cells. Clone MRC OX-8 is suitable for use in in vitro blocking studies. We recommend the use of SM259A for this purpose. This clone has been described reacting with paraffin-embedded material following PLP Fixation (periodatylsine paraformaldehyde) <b>Species:</b> Rat. Other species not tested.

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**Storage:**

Prior to and following reconstitution store the antibody at 2-8°C.

**DO NOT FREEZE!**

This product is photosensitive and should be protected from light.

Shelf life: one year from despatch.

**General References:**

1. Brideau, R.J. et al. (1980) Two subsets of rat T lymphocytes defined with monoclonal antibodies. *Eur. J. Immunol.* 10: 609-615.
2. Lyscom, N. and Brueton, M.J. (1982) Intraepithelial, lamina propria and Peyers patch lymphocytes of the rat small intestine: isolation and characterization in terms of immunoglobulin markers and receptors for monoclonal antibodies. *Immunology* 45: 775-783.
3. Whiteland, J.L. et al. (1995) Immunohistochemical Detection of T-Cell Subsets and other Leucocytes in Paraffin-embedded Rat and Mouse Tissues with Monoclonal Antibodies. *J. Histochem. Cytochem.* 43: 313-320.
4. Bukovsky, A. et al. (1984) Association of some cell surface antigens of lymphoid cells and cell surface differentiation antigens with early rat pregnancy. *Immunology.* 52:631-640.
5. Popov, I. et al. (2001) The effect of an Anti-HLA-B27 Immune Response on CTL Recognition of Chlamydia. *J. Immunol.* 167: 3375 - 3382.

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