

Monoclonal Antibody to CD8 - FITC

Alternate names:	CD8 alpha chain, CD8A, MAL, T-cell surface glycoprotein CD8 alpha chain, T-lymphocyte differentiation antigen T8/Leu-2
Catalog No.:	SM259FX
Quantity:	0.5 mg
Concentration:	0.1 mg/ml
Background:	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.
Uniprot ID:	P07725
NCBI:	NP_113726.1
GeneID:	24930
Host / Isotype:	Mouse / IgG1
Clone:	OX-8
Immunogen:	Rat thymocyte membrane glycoproteins. Spleen cells from immunised BALB/c mice were fused with cells of the NS1 mouse myeloma cell line.
Format:	State: Liquid purified IgG fraction. Purification: Ion Exchange Chromatography Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow cytometry: Use 10µl of Neat-1/10 diluted antibody to label 10e6 cells in 100 µl. This clone has been described reacting with paraffin-embedded material following PLP Fixation (periodatylsine paraformaldehyde). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	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. Species: Rat. Other species not tested.

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

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
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Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. 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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