

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.:	SM2080F
Quantity:	0.1 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:	P31783
NCBI:	NP_776440
GeneID:	281060
Host / Isotype:	Mouse / IgG2a
Clone:	38.65
Immunogen:	Ovine efferent lymphocytes. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line.
Format:	State: Liquid purified IgG Purification: Affinity chromatography on Protein G Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: 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.
Specificity:	This antibody recognises the CD8 cell surface antigen, which is expressed by the cytotoxic/suppressor subset of T lymphocytes. Species: Sheep, Bovine, Goat. 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. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.

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
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

- General References:**
1. Maddox, J. et al. (1985) Surface antigens, SBU-T4 and SBU-T8, of sheep T lymphocyte subsets defined by monoclonal antibodies. *Immunology*. 55: 739-748.
 2. Mackay, C. et al. (1986) Three distinct subpopulations of sheep T lymphocytes. *Eur. J. Immunol.* 16: 19-25.
 3. Mackay, C. et al. (1987) A monoclonal antibody to the p220 component of sheep LCA identifies B cells and a unique lymphocyte subset. *Cell. Immunol.* 110: 46-55.
 4. Mackay, C. et al. (1989) Gamma/delta T cells express a unique surface molecule appearing late during thymic development. *Eur. J. Immunol.* 19: 1477-1483.
 5. Mackay, C. et al. (1986) Thymocyte subpopulations during early fetal development in sheep. *J. Immunol.* 136 (5): 1592-1599

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