

## Monoclonal Antibody to CD8 - FITC

<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>	AM08107FC-N
<b>Quantity:</b>	0.5 mg
<b>Concentration:</b>	0.5 mg/ml
<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. CD8 is expressed on most thymocytes and approximately 1/3 of peripheral blood T cells in humans. CD8 alpha/beta heterodimers are expressed only on TCR alpha/beta T cells, whereas CD8 alpha homodimers can be expressed on alpha/beta and gamma/delta T cells and some NK cells in humans. The pattern of expression in other species has not been well documented.
<b>Uniprot ID:</b>	<a href="#">O6R2U9</a>
<b>NCBI:</b>	<a href="#">NP_001001907</a>
<b>GenEID:</b>	<a href="#">396627</a>
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Clone:</b>	76-2-11
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Buffer System:</b> PBS containing 0.09% Sodium Azide as preservative. <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	<b>Flow Cytometry:</b> < / = 1 µg/10e6 cells. (Ref.1-3) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody reacts with Porcine CD8 alpha (Mr. 32-34 kDa). (Ref-1-3) <b>Species:</b> Pig. Other species not tested.
<b>Storage:</b>	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.

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

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

Antibody Hotline - Technical Questions - Antibody Location Service  
Free Call: 0800-2274746 (Germany only) - [www.acris-antibodies.com](http://www.acris-antibodies.com)



- General Readings:**
1. Pescovitz, M.D., .K. Lunney, and D.H. Sachs. 1984. J. Immunol. 133:368.
  2. Yamada, K., D.H. Sachs, and H. DerSimonian. 1995. J. Immunol. 155:5249.
  3. Smith, C.V., T. Sablinski, J.S. Arn, et al. 1994. J. Immunother. with Emphasis on Tumor Immunology 16:105.

**Pictures:**

**Immunofluorescent Staining:** Peripheral blood mononuclear cells were isolated from heparinized pig blood on Ficoll-Hypaque density gradients and double stained with Mouse anti-Pig CD8a-FITC and Mouse anti-Pig CD4a-PE. Lymphocytes were gated and analyzed on a FACScan(TM) flow cytometer (BDIS, San Jose,CA). Amount Used: 1 µg/10e6 cells.

