

## 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>	AM05640RP-N
<b>Quantity:</b>	100 Tests
<b>Background:</b>	<p>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.</p> <p>CD8 functions as a co-receptor with the T-cell receptor and mediates efficient cell to cell interactions within the immune system. The CD8 alpha chain specifically binds to class I MHC molecules.</p>
<b>Uniprot ID:</b>	<a href="#">P01731</a>
<b>NCBI:</b>	<a href="#">NP_001074579.1</a>
<b>GeneID:</b>	<a href="#">12525</a>
<b>Host / Isotype:</b>	Rat / IgG2a
<b>Clone:</b>	53-6.7
<b>Immunogen:</b>	Mouse thymus or spleen.
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction <b>Purification:</b> Affinity Chromatography on Protein G <b>Buffer System:</b> PBS, pH 7.2 <b>Preservatives:</b> 0.09% Sodium Azide <b>Stabilizers:</b> 1% BSA <b>Label:</b> PE – R. Phycoerythrin (RPE)
<b>Applications:</b>	<b>Flow Cytometry.</b> Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	<p>This antibody detects CD8a, the alpha chain of the CD8 antigen. CD8 is expressed on T-cells, and exists either a homodimer composed of two alpha chains, or a heterodimer composed of one alpha and one beta chain.</p> <p>The 53-6.7 antibody has been reported to block antigen presentation via MHC class I and inhibit T cell responses to IL-2.</p> <p>This antibody has also been used for depletion of CD8a+ cells.</p>
<b>Species Reactivity:</b>	<b>Tested:</b> Mouse.

**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)



**Storage:**

Store the antibody undiluted at 2-8°C.

**DO NOT FREEZE!**

This product is photosensitive and should be protected from light.

Shelf life: one year from despatch.

**General Readings:**

1. Jabbari A, Harty JT. The generation and modulation of antigen-specific memory CD8 T cell responses. *J Leukoc Biol.* 2006 Jul;80(1):16-23. Epub 2006 May 9. PubMed PMID: 16684891.
2. Takahashi K, Nakata M, Tanaka T, Adachi H, Nakauchi H, Yagita H, et al. CD4 and CD8 regulate interleukin 2 responses of T cells. *Proc Natl Acad Sci U S A.* 1992 Jun 15;89(12):5557-61. PubMed PMID: 1608966.
3. McDole JR, Danzer SC, Pun RY, Chen Y, Johnson HL, Pirko I, et al. Rapid formation of extended processes and engagement of Theiler's virus-infected neurons by CNS-infiltrating CD8 T cells. *Am J Pathol.* 2010 Oct;177(4):1823-33. doi: 10.2353/ajpath.2010.100231. Epub 2010 Sep 2. PubMed PMID: 20813972.

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