

Product datasheet for **AM05640RP-N**

Cd8a Rat Monoclonal Antibody [Clone ID: 53-6.7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	53-6.7
Applications:	FC
Recommended Dilution:	Flow Cytometry.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Mouse thymus or spleen.
Specificity:	<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>
Formulation:	<p>PBS, pH 7.2</p> <p>Label: PE</p> <p>State: Liquid purified IgG fraction</p> <p>Stabilizer: 1% BSA</p> <p>Preservative: 0.09% Sodium Azide</p> <p>Label: R. Phycoerythrin (RPE)</p>
Purification:	Affinity Chromatography on Protein G
Conjugation:	PE
Storage:	<p>Store the antibody undiluted at 2-8°C.</p> <p>DO NOT FREEZE!</p> <p>This product is photosensitive and should be protected from light.</p>
Stability:	Shelf life: one year from despatch.
Gene Name:	CD8 antigen, alpha chain



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Database Link: [Entrez Gene 12525 Mouse P01731](#)

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.

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.

Synonyms: CD8 alpha chain, CD8A, MAL