



# Anti-CD8A monoclonal antibody, clone 53-6.7 [R-PE/Cy7®] (CABT-45308RM)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

Rat anti Mouse CD8 alpha antibody, clone 53-6.7 detects mouse 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. 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. Rat anti Mouse CD8 alpha antibody, clone 53-6.7 has been reported to block antigen presentation via MHC class I and inhibit T cell responses to IL-2. This antibody has also been used for depletion of CD8a+ cells. Flow Cytometry Use 5ul of the suggested working dilution to label 1x10<sup>6</sup> cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors.

<b>Specificity</b>	CD8A
<b>Immunogen</b>	Mouse thymus or spleen.
<b>Isotype</b>	IgG2a
<b>Source/Host</b>	Rat
<b>Species Reactivity</b>	Mouse
<b>Clone</b>	53-6.7
<b>Conjugate</b>	PE/Cy7
<b>Applications</b>	FC
<b>Format</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) Cy7 - liquid
<b>Size</b>	500 µl

<b>Preservative</b>	0.09% Sodium Azide
<b>Storage</b>	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Cd8a CD8 antigen, alpha chain [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	CD8A
<b>Synonyms</b>	CD8A; CD8 antigen, alpha chain; Ly-2; Ly-B; Ly-35; Lyt-2; BB154331; T-cell surface glycoprotein CD8 alpha chain; T-cell surface glycoprotein Lyt-2; Lyt-2.1 lymphocyte differentiation antigen (AA at 100);
<b>Entrez Gene ID</b>	<a href="#">12525</a>
<b>Protein Refseq</b>	<a href="#">NP_001074579</a>
<b>UniProt ID</b>	P01731
<b>Chromosome Location</b>	6 C; 6 32.14 cM
<b>Pathway</b>	Adaptive Immune System; Antigen processing and presentation; Cell adhesion molecules (CAMs); Hematopoietic cell lineage; Immune System; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell; Primary immunodeficiency; T Cell Receptor Signaling Pathway;
<b>Function</b>	protein binding; protein homodimerization activity; protein kinase binding;