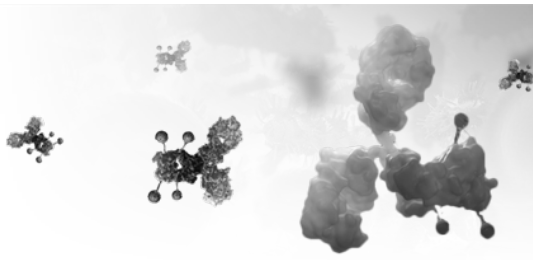

# Anti-CD8A monoclonal antibody, clone 53-6.7 [R-PE] (CABT-45305RM)

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

## PRODUCT INFORMATION

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|---|---|
| **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 10ul of the suggested working dilution to label 1x106 cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. |
| **Specificity** | CD8A |
| **Immunogen** | Mouse thymus or spleen. |
| **Isotype** | IgG2a |
| **Source/Host** | Rat |
| **Species Reactivity** | Mouse |
| **Clone** | 53-6.7 |
| **Conjugate** | PE |
| **Applications** | FC |
| **Format** | Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid |
| **Size** | 1 ml |

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|---|---|
| **Preservative** | 0.09% Sodium Azide |
| **Storage** | 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

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|---|---|
| **Gene Name** | Cd8a CD8 antigen, alpha chain [ Mus musculus (house mouse) ] |
| **Official Symbol** | CD8A |
| **Synonyms** | 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); |
| **Entrez Gene ID** | 12525 |
| **Protein Refseq** | NP_001074579 |
| **UniProt ID** | P01731 |
| **Chromosome Location** | 6 C; 6 32.14 cM |
| **Pathway** | 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; |
| **Function** | protein binding; protein homodimerization activity; protein kinase binding; |

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