

## Product datasheet for **AM08023RP-N**

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

#### Product data:

|                       |  |
|-----------------------|--|
| Product Type:         | Primary Antibodies   |
| Clone Name:           | 53-6.7   |
| Applications:         | FC, IHC, IP  |
| Recommended Dilution: | Flow Cytometry: < / = 0.2 µg/10e6 cells. (Ref.8,9)<br>Immunohistochemistry (Acetone-Fixed Frozen Sections) (See Ref. 10)<br>Immunoprecipitation. (Ref.8)<br>Fractionation of CD8a+ T cells. (Ref.10) |
| Reactivity:           | Mouse  |
| Host:                 | Rat  |
| Isotype:              | IgG2a  |
| Clonality:            | Monoclonal   |
| Specificity:          | This antibody recognises the alpha chain of the Murine CD8 heterodimer (Mr. 32-34 kDa).  |
| Formulation:          | PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent.<br>Label: PE<br>State: Liquid purified Ig fraction.<br>Label: R-Phycoerythrin   |
| Concentration:        | lot specific   |
| Conjugation:          | PE   |
| Storage:              | Store the antibody undiluted at 2-8°C.<br><b>DO NOT FREEZE!</b><br>This product is photosensitive and should be protected from light.<br>Avoid repeated freezing and thawing.                        |
| Stability:            | Shelf life: one year from despatch.  |
| Gene Name:            | CD8 antigen, alpha chain   |
| Database Link:        | <a href="#">Entrez Gene 12525 Mouse P01731</a>   |



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**Background:**

In the mouse, CD8 exists in two forms: (i) a CD8 heterodimer composed of an alpha chain (CD8a/Lyt-2) and a beta chain (CD8b/Lyt-3); and (ii) a homodimer of two alpha chains. The heterodimer is found on the surface of essentially all thymocytes and the "suppressor/cytotoxic" subpopulation of mature T lymphocytes. Subsets of intestinal intraepithelial lymphocytes express CD8a without CD8b. It has been suggested that CD8<sup>+</sup>b<sup>-</sup> T cells mature extrathymically, while development of the CD8<sup>+</sup>a<sup>+</sup>b<sup>+</sup> population of T cells is thymus-dependent. CD8 acts as a coreceptor with MHC Class I-restricted T cell receptors in antigen recognition and positive selection of MHC class I-restricted CD8<sup>+</sup> T cells. In vivo and in vitro treatment with the 53-6.7 monoclonal antibody effectively depletes CD8<sup>+</sup> cells. The 53-6.7 monoclonal antibody also blocks allogeneic help specific for class I MHC antigens and T cell responses to IL-2. (Ref. 1-8)

**Synonyms:**

CD8 alpha chain, CD8A, MAL