

## Product datasheet for **AM08023LE-N**

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

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	53-6.7
Applications:	FN
Recommended Dilution:	Functional Assay: <i>In vivo</i> and <i>in vitro</i> depletion of CD8a+ cells. (Ref. 1,4,5) 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). In vivo and in vitro treatment with the 53-6.7 monoclonal antibody effectively depletes CD8a+ 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)
Formulation:	PBS without preservatives. State: Low Endotoxin State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted (in aliquots) at -20°C. 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