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# Product datasheet for AM08023BT-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:** ≤ 2 µg/$10^6$ cells. (Ref.1,6,7,9-15).<br>**Immunohistochemistry (Acetone-Fixed Frozen Sections)** (See Ref.2-5).<br>**Immunoprecipitation** (Ref.1,6). |
| **Reactivity:** | Mouse |
| **Host:** | Rat |
| **Isotype:** | IgG2a |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Spleen cells or thymocyte membranes |
| **Specificity:** | This 53-6.7 antibody recognizes the alpha chain of the Murine CD8 hetrerodimer (Mr. 32-34 kDa).<br>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 containing 0.09% Sodium Azide as preservative<br>Label: Biotin<br>State: Liquid purified Ig fraction |
| **Concentration:** | lot specific |
| **Conjugation:** | Biotin |
| **Storage:** | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<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:** | Entrez Gene 12525 Mouse<br>P01731 |

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**Background:** In the Mouse, CD8 exists in two forms – (i) a CD8 heterodimer composed of an α chain (CD8α) and a β chain (CD8β); and (ii) a homodimer of two α 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 CD8α without CD8β. It has been suggested that $CD8^+\beta^-$ T cells mature extrathymically, while development of the $CD8\alpha^+\beta^+$ 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 $CD8^+$ T cells. *In vivo* and *in vitro* treatment with the 53-6.7 monoclonal antibody effectively depletes $CD8\alpha^+$ cells.

**Synonyms:** CD8 alpha chain, CD8A, MAL