

Product datasheet for **AM08023AC7-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) Immunohistochemistry (Acetone-Fixed Frozen Sections). (See Ref. 10) Immunoprecipitation. (Ref.8) 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. Label: APC-Cy7 State: Liquid purified Ig fraction. Label: Allophycocyanin-Cyanine 7
Concentration:	lot specific
Conjugation:	APC-Cy7
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD8 antigen, alpha chain
Database Link:	Entrez Gene 12525 Mouse P01731



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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⁺b⁻ T cells mature extrathymically, while development of the CD8⁺a⁺b⁺ 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⁺a⁺ 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