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Product datasheet for AM05640PU-T

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:	**Immunoprecipitation.** **Immunofluorescence.** **Flow Cytometry:** Use 10 µl of the suggested working dilution to label 1x10e6 cells in 100 µl. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. **Immunohistochemistry on Frozen Sections.** **Immunohistochemistry on Paraffin Sections:** This antibody has been reported as working well on Zinc-fixed paraffin-embedded sections. However, inconsistent results have been reported on formalin-fixed paraffin-embedded tissue sections.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Mouse thymus or spleen.
Specificity:	This antibody detects 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. The 53-6.7 antibody has been reported to block antigen presentation via MHC class I and inhibit T cell responses to IL-2. It has also been used for Depletion of $CD8a^+$ cells.
Formulation:	PBS, pH 7.2 containing 0.09% Sodium Azide as preservative. State: Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G from tissue culture supernatant.
Conjugation:	Unconjugated

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Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. 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
Background:	The CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell to cell interactions within the immune system. The CD8 antigen, acting as a coreceptor, and the T cell receptor on the T lymphocyte recognize antigen displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. The functional coreceptor is either a homodimer composed of two alpha chains, or a heterodimer composed of one alpha and one beta chain. Both alpha and beta chains share significant homology to immunoglobulin variable light chains. CD8 is expressed on most thymocytes and approximately 1/3 of peripheral blood T cells in humans. CD8 alpha/beta heterodimers are expressed only on TCR alpha/beta T cells, whereas CD8 alpha homodimers can be expressed on alpha/beta and gamma/delta T cells and some NK cells in humans. The pattern of expression in other species has not been well documented. The CD8 alpha chain specifically binds to class I MHC molecules.
Synonyms:	CD8 alpha chain, CD8A, MAL