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Monoclonal Antibody to CD8 - PE

Alternate names: CD8 alpha chain, CD8A, MAL, T-cell surface glycoprotein CD8 alpha chain, T-lymphocyte differentiation antigen T8/Leu-2

Catalog No.: AM08023RP-N

Quantity: 0.2 mg

Concentration: 0.1 mg/ml

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 CD8a+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 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)

Uniprot ID: P01731

NCBI: NP_001074579.1

GeneID: 12525

Host / Isotype: Rat / IgG2a

Clone: 53-6.7

Format: **State:** Liquid purified Ig fraction.
Buffer System: PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent.
Label: PE – R-Phycoerythrin

Applications: 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)
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody recognises the alpha chain of the Murine CD8 hetrerodimer (Mr. 32-34 kDa).
Species: Mouse.
Other species not tested.

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.
Shelf life: one year from despatch.

General Readings:

1. Ledbetter, J. A. and W. E. Seaman. 1982. Immunol. Rev. 68:197.
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3. Lefrancois, L. 1991. Immunology Today 12:436.
4. Takahasi, K., M. Nakata, T. Tanaka, H. Adachi, H. Nakauchi, H. Yagita, and K. Okumura. 1992. Proc. Natl. Acad. Sci. USA. 89:5557.
5. Mage, M. G. 1991. In Current Protocols in Immunology. John Wiley & Sons, New York, p. 3.4.1.
6. Kruisbeek, A. M. 1991. In Current Protocols in Immunology. John Wiley & Sons, New York, p. 4.1.1.
7. Swain, S. L., D. P. Dialynas, F. W. Fitch, and M. English. 1984. J. Immunol. 132:1118.
8. Ledbetter, J. A. and L. A. Herzenberg. 1979. Immunol. Rev. 47:63.
9. Ledbetter, J. A., R. V. Rouse, H. S. Micklem, and L. A. Herzenberg. 1980. J. Exp. Med. 152:280.
10. Jia, W. and J. F. Kearney. 1996. Personal communication.