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Monoclonal Antibody to CD8 - FITC

CD8 alpha chain, CD8A, MAL, T-cell surface glycoprotein CD8 alpha chain, T-lymphocyte Alternate names:

differentiation antigen T8/Leu-2

Catalog No.: AM08023FC-N

Quantity: 0.5 mg **Concentration:** 0.5 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.

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.

Label: FITC - Fluorescein Isothiocyanate Isomer 1

Applications: Flow Cytometry: $\langle / = 2 \mu g / 10e6 \text{ cells.} (\text{Ref. 8, 9})$

Immunohistochemistry (Acetone-Fixed Frozen Sections) (See Ref. 10)

Immunoprecipitation. (Ref.8)

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).

> 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)

Species: Mouse.

Other species not tested.



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Storage:

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

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.

2. Lefrancois, L. 1991. J. Immunol. 147:1746.

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.

Pictures:

Immunofluorescent Staining: Cells from BALB/c mesenteric lymph nodes were double-stained with anti-mouse CD8a-FITC and anti Mouse CD4-R-PE (clone GK1.5), gated on small lymphocytes and

analyzed on a FACScan (TM) flow cytometer (BDIS, San Jose, CA). Amount

used: 1 µg/10e6 cells

