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**Product name:** Anti-Mouse CD8a Monoclonal  
Antibody(PE/Cyanine5 Conjugated)

**Catalog:** DL21254F

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

**Background:** CD8, also known as Lyt-2, Ly-2, or T8, consists of disulfide-linked  $\alpha$  and  $\beta$  chains that form the  $\alpha$ (CD8a)/ $\beta$ (CD8b) heterodimer and  $\alpha/\alpha$  homodimer. CD8a is a 34 kD protein that belongs to the immunoglobulin family. The CD8  $\alpha/\beta$  heterodimer is expressed on the surface of most thymocytes and a subset of mature TCR  $\alpha/\beta$  T cells. CD8 expression on mature T cells is non-overlapping with CD4. The CD8  $\alpha/\alpha$  homodimer is expressed on a subset of  $\gamma/\delta$

TCR-bearing T cells, NK cells, intestinal intraepithelial lymphocytes, and lymphoid dendritic cells. CD8 is an antigen co-receptor on T cells that interacts with MHC class I on antigen-presenting cells or epithelial cells. CD8 promotes T cell activation through its association with the TCR complex and protein tyrosine kinase lck.

**Form:** Liquid

**Isotype:** Rat IgG2a,  $\kappa$

**Size:** 50 Tests/100 Tests/200 Tests/500 Tests

**Host:** Rat

**Reactivity:** Mouse

**Application:** FCM

**Concentration:**

**Conjugation:** PE/Cyanine5

**SwissProt:** P01731

**Buffer:** PBS with 0.05% Proclin300, 1% BSA

### **Recommended Use:**

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. The amount of the reagent is suggested to be used 5  $\mu$ L of antibody per test (million cells in 100  $\mu$ L staining volume or per 100  $\mu$ L of whole blood). Please

check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

**Data:**

Mouse splenocytes are stained with Anti-Mouse CD8a Monoclonal Antibody(PE/Cyanine5 Conjugated)(filled gray histogram). Unstained splenocytes (blank black histogram) are used as control.

**Storage:**

Keep as concentrated solution.

Store at 2~8°C and protected from prolonged exposure to light. Do not freeze.

This product is guaranteed up to one year from purchase.