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## Biotin Anti-Mouse CD8a Antibody[53-6.7]

Catalog Number: E-AB-F1104B

Note: Centrifuge before opening to ensure complete recovery of vial contents.

**Description** 

Reactivity Mouse Host Rat

Isotype Rat IgG2a, κ
Clone No. 53-6.7

Isotype Control Biotin Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09833B]

Conjugation Biotin

Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

Applications Recommended usage

FCM Each lot of this antibody is quality control tested by flow cytometric analysis. For flow

cytometric staining, the suggested use of this reagent is  $\leq$  1.0  $\mu$ g per 10<sup>6</sup> cells in 100  $\mu$ L volume or 100  $\mu$ L of whole blood. It is recommended that the reagent be titrated for

optimal performance for each application.

**Preparation & Storage** 

**Storage** Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Do not freeze.

Shipping Ice bag

**Antigen Information** 

Alternate Names CD8A;MAL;T-cell surface glycoprotein CD8 alpha chain;T-lymphocyte differentiation

antigen T8/Leu-2

 Uniprot ID
 P01731

 Gene ID
 12525

**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.