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# Elab Fluor® Violet 540 Anti-Mouse CD8a Antibody[53-6.7]

Catalog Number: E-AB-F1104T3

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 Elab Fluor® Violet 540 Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09832T3]

**Conjugation** Elab Fluor<sup>®</sup> Violet 540

**Conjugation Information** Elab Fluor® Violet 540 is designed to be excited by the violet laser (405 nm) and detected

using an optical filter centered near 548 nm (e.g., a 572/28 nm bandpass filter).

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

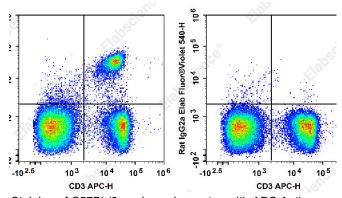
#### Applications

#### Recommended usage

**FCM** 

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



Staining of C57BL/6 murine splenocytes with APC Anti-

Mouse CD3 Antibody[17A2] and Elab Fluor<sup>®</sup> Violet 540 Anti-Mouse CD8a Antibody[53-6.7](left) or Elab Fluor<sup>®</sup> Violet 540 Rat IgG2a, κ Isotype Control(right). Total viable cells were used for analysis.

# **Preparation & Storage**

**Storage** Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Please protected from prolonged

exposure to light and 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

# For Research Use Only

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#### Elabscience Bionovation Inc.



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Gene ID Background 12525

CD8, also known as Lyt-2, Ly-2, or T8, consists of disulfide-linked  $\alpha$  and  $\beta$  chains that form the  $\alpha(\text{CD8a})/\beta(\text{CD8b})$  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.