

A Reliable Research Partner in Life Science and Medicine

# PE/Elab Fluor® 594 Anti-Mouse CD8a Antibody[2.43]

Catalog Number: E-AB-F9996P

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

#### **Description**

Reactivity Mouse Rat Host

Isotype Rat IgG2b, ĸ

Clone No. 2.43

Isotype Control PE/Elab Fluor<sup>®</sup> 594 Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09842P]

Conjugation PE/Elab Fluor®594

**Conjugation Information** PE/Elab Fluor® 594 is designed to be excited by the blue (488 nm), Green (532 nm) and

yellow-green (561 nm) lasers and detected using an optical filter centered near 620 nm

(e.g., a 610/20 nm bandpass filter).

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

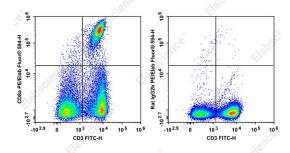
#### **Applications** Recommended usage

**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 µL of antibody per test (million cells in 100 μL staining volume or per 100 μL 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 cells with PE Anti-

Mouse CD3 Antibody and PE/Elab Fluor® 594 Anti-Mouse CD8a Antibody[2.43] (left) or PE/Elab Fluor® 594 Rat IqG2b. 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** T8;Lyt2;Ly-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.