

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

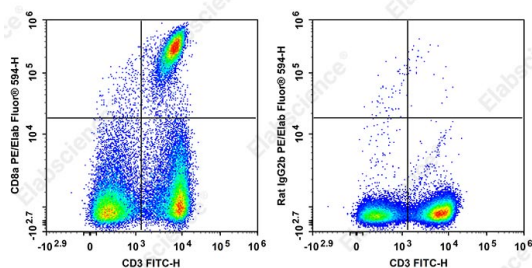
Catalog Number: GFH9996P

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

| Description             |                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                                                                             |
| Host                    | Rat                                                                                                                                                                                                               |
| Isotype                 | Rat IgG2b, κ                                                                                                                                                                                                      |
| Clone No.               | 2.43                                                                                                                                                                                                              |
| Isotype Control         | PE/Elab Fluor® 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). |
| Storage Buffer          | Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide.                                                                                                                                               |

| Applications | Recommended usage                                                                                                                                                                                                                                                                                                                                                                   |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCM          | Each lot of this antibody is quality control tested by flow cytometric analysis. <b>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).</b> 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 IgG2b, κ Isotype Control (right). Total viable cells were used for analysis.

| Preparation & Storage |                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage               | Keep as concentrated solution.<br>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;Ly2;Ly-2                                                                                                                                               |
| Uniprot ID            | P01731                                                                                                                                                    |

## For Research Use Only

**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.