# PE Anti-Mouse CD8a Antibody[YTS169.4]

**Catalog Number:** AN00408D

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

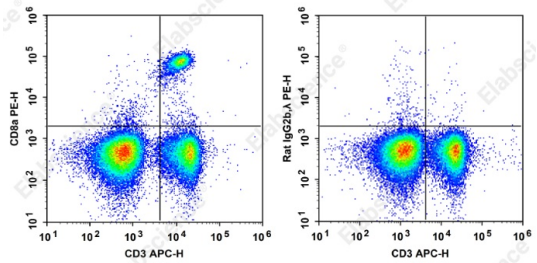
## Description

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| **Reactivity** | Mouse |
| **Host** | Rat |
| **Isotype** | Rat IgG2b, λ |
| **Clone No.** | YTS169.4 |
| **Isotype Control** | PE Rat IgG2b, λ Isotype Control[G013B8] [Product AN00565D] |
| **Conjugation** | PE |
| **Conjugation Information** | PE 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 575 nm (e.g., a 585/42 nm bandpass filter). |
| **Storage Buffer** | Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer. |

## Applications — Recommended usage

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| **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 APC Anti-Mouse CD3 Antibody and PE Anti-Mouse CD8a Antibody[YTS169.4] (left) or PE Rat IgG2b, λ Isotype Control (right). Total viable cells were used for analysis

## Preparation & Storage

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| **Storage** | Keep as concentrated solution.<br>This product can be stored at 2-8°C for 24 months. Please protected from prolonged exposure to light and do not freeze. |
| **Shipping** | Ice bag |

## Antigen Information

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| **Alternate Names** | T8;Lyt2;Ly-2;T-cell surface glycoprotein Lyt-2;CD8a;CD8 |
| **Uniprot ID** | P01731 |
| **Gene ID** | 12525 |

**Background**

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


Toll-free: 1-888-852-8623
Tel: 1-832-243-6086
Fax: 1-832-243-6017
Web:www.elabscience.com
Email:techsupport@elabscience.com