# PE/Cyanine7 Anti-Rat CD8a Antibody[OX-8]

| | | | |
|---|---|---|---|
| **Catalog No.** | E-AB-F1098H | **Reactivity** | Rat |
| **Storage** | Store at 2~8℃, Avoid freeze / thaw cycles | **Applications** | FCM |

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

## Antigen Information

| | |
|---|---|
| **Alternate Names** | T-cell surface glycoprotein CD8 alpha chain,CD8A,T-lymphocyte differentiation antigen T8/Leu-2,MAL |
| **Uniprot ID** | P07725 |
| **Gene ID** | 24930 |
| **Background** | CD8a is a 32 kD glycoprotein also known as T8, Lyt2, Ly-2, and CD8α. CD8a is a member of the immunoglobulin superfamily expressed on most thymocytes, subset of mature T cells, most NK cells, macrophages, and some activated CD4+ T cells (not resting). CD8a forms heterodimers with the CD8β chain (CD8b) on the surface of most thymocytes, while mature peripheral T lymphocytes express almost exclusively the CD8 αβ heterodimer. Intestinal intraepithelial lymphocytes express CD8a without CD8b. CD8 is an antigen co-receptor on T cells that interacts with MHC class I on antigen-presenting cells or epithelial cells. CD8 participates in T cell activation through its association with the T cell receptor complex and protein tyrosine kinase lck (p56lck). |

## Product Details

| | |
|---|---|
| **Form** | Liquid |
| **Size** | 50Tests/100Tests/100Tests×2 |
| **Clone No.** | OX-8 |
| **Host** | Mouse |
| **Isotype** | Mouse IgG1, κ |
| **Reactivity** | Rat |
| **Application** | FCM |
| **Isotype Control** | PE/Cyanine7 Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-F09792H] |
| **Storage Buffer** | Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant. |
| **Shipping** | Biological ice pack at 4 ℃ |
| **Stability & Storage** | Keep as concentrated solution.<br>Store at 2~8℃ and protected from prolonged exposure to light.Do not freeze.<br>This product is guaranteed up to one year from purchase. |

## Fluorophore

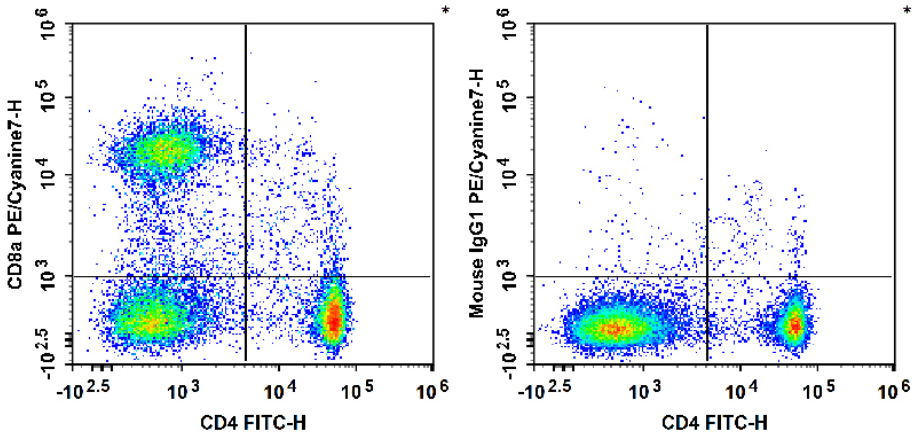
**Conjugation:** PE/Cyanine7

PE/Cyanine7 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 775 nm (e.g., a 780/60 nm bandpass filter).

## Recommended usage

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.

## Product data




Rat splenocytes are stained with FITC Anti-Rat CD4(domain 1) Antibody and PE/Cyanine7 Anti-Rat CD8a Antibody (Left). Splenocytes are stained with FITC Anti-Rat CD4(domain 1) Antibody and PE/Cyanine7 Mouse IgG1, κ Isotype Control (Right).

## Related Information

1. Sample Preparation for Flow Cytometry https://www.elabscience.com/List-detail-5594.html
2. Staining Cell Surface Targets for Flow Cytometry https://www.elabscience.com/List-detail-5568.html
3. Flow Cytometry Troubleshooting Tips https://www.elabscience.com/List-detail-5593.html
4. How to select the appropriate detection channel through the spectrogram? https://www.elabscience.com/List-detail-459742.html