

## Anti-Mouse CD8a PerCP-Cyanine5.5

Catalogue Number : 10112-70

RUO: For Research Use Only. Not for use in diagnostic procedures.

### Product Information

**Clone:** 2.43

**Format/Conjugate:** PerCP-Cyanine5.5

**Concentration:** 0.2 mg/mL

**Reactivity:** Mouse

**Laser:** Blue (488nm)

**Peak Emission:** 695nm

**Peak Excitation:** 482nm

**Filter:** 695/40

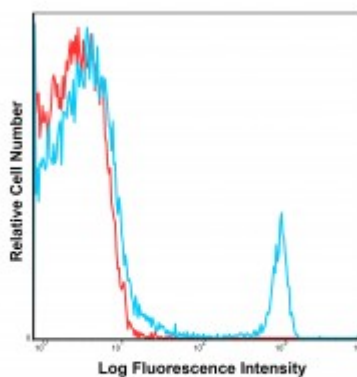
**Brightness (1=dim,5=brightest):** 3

**Isotype:** Rat IgG2b

**Formulation:** Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

**Storage:** Product should be kept at 2-8°C and protected from prolonged exposure to light.

**Applications:** FC



C57Bl/6 bone marrow cells were stained with PeCP-Cy5.5 2.43 with relevant isotype control in Red.

### Description

The 2.43 monoclonal antibody specifically reacts with mouse CD8 antigen. CD8a (the alpha chains) form heterodimers with CD8b (the beta chains) or homodimers (alpha-alpha), which occur as receptors on the surface of the majority of thymocytes. A subpopulation of mature T lymphocytes expresses the CD8 alpha beta (alpha beta TCR T cells), and a subpopulation of intestinal intraepithelial lymphocytes and dendritic cells express CD8a without CD8b. CD8 interacts with the mouse major histocompatibility complex class I (MHC class I) molecules on antigen-presenting cells or epithelial cells.

### Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

### Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. For flow cytometric staining, the suggested use of this reagent is ≤0.125 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

### References

1. Salem, M. L., Hossain, M. S. (2000). In vivo acute depletion of CD8+ T cells before murine cytomegalovirus infection upregulated innate antiviral activity of natural killer cells. *International journal of immunopharmacology*, 22(9), 707-718.
2. Kruisbeek, A. M. (1991). In Vivo Depletion of CD4 and CD8 Specific T Cells. *Current protocols in immunology*, 4-1.
3. Davies, A., Kalb, S., Liang, B., Aldrich, C. J., Lemonnier, F. A., Jiang, H., ... Soloski, M. J. (2003). A peptide from heat shock protein 60 is the dominant peptide bound to Qa-1 in the absence of the MHC class Ia leader sequence peptide Qdm. *The Journal of Immunology*, 170(10), 5027-5033.