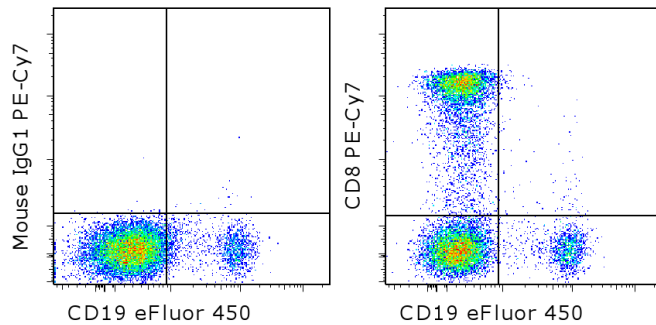


## Anti-Human CD8a PE-Cyanine7

**Catalog Number:** 25-0087

**Also known as:** CD8 alpha, leu-2a

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



Staining of normal human peripheral blood cells with Anti-Human CD19 eFluor<sup>®</sup> 450 (cat. 48-0199) and Mouse IgG1 K Isotype Control PE-Cyanine7 (cat. 25-4714) (left) or Anti-Human CD8a PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

### Product Information



**Contents:** Anti-Human CD8a PE-Cyanine7

**Catalog Number:** 25-0087

**Clone:** SK1

**Concentration:** 5  $\mu$ L (0.06  $\mu$ g)/test

**Host/Isotype:** Mouse IgG1, kappa



**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.



**Batch Code:** Refer to vial



**Use By:** Refer to vial



**Contains sodium azide**

### Description

The SK1 monoclonal antibody reacts with the human CD8a molecule, an approximately 32-34 kDa cell surface receptor expressed either as a heterodimer with the CD8 beta chain (CD8 alpha/beta) or as a homodimer (CD8 alpha/alpha). A majority of thymocytes and a subpopulation of mature T cells and NK cells express CD8a. CD8 binds to MHC class I and through its association with protein tyrosine kinase p56lck plays a role in T-cell development and activation of mature T cells.

### Applications Reported

This SK1 (SK-1) antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This SK1 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5  $\mu$ L (0.06  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

**Light sensitivity:** This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

**Fixation:** Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100  $\mu$ L cell sample + 100  $\mu$ L IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

### References

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Campanelli, R., Palermo, B., et al. Human CD8 co-receptor is strictly involved in MHC-peptide tetramer-TCR binding and T cell activation. *International Immunology*. 2002 May; 14(1):39-44.

Evans, R.L., Wall, D.W., et al. Thymus-dependent membrane antigens in man: Inhibition of cell-mediated lympholysis by monoclonal antibodies to TH2 antigen. *Immunol*. 1981 Jan; 78,1:544-548.

### Related Products

25-4714 Mouse IgG1 K Isotype Control PE-Cyanine7 (P3.6.2.8.1)

48-0199 Anti-Human CD19 eFluor® 450 (HIB19)

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