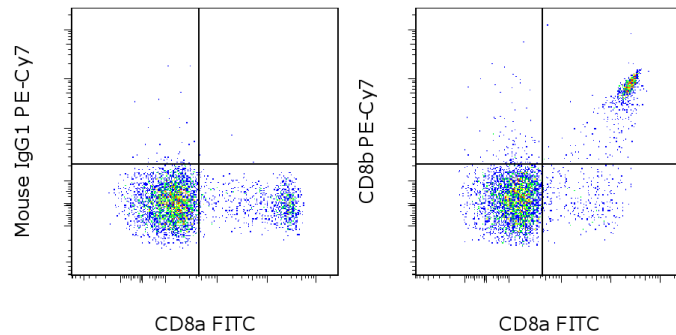![eBioscience - An Affymetrix Company]

Anti-Human/Non-Human Primate CD8b PE-Cyanine7

Catalog Number: 25-5273
RUO: For Research Use Only. Not for use in diagnostic procedures.

Staining of normal human peripheral blood cells with Anti-Human CD8a FITC (cat. 11-0087) and Mouse IgG1 K Isotype Control PE-Cyanine7 (cat. 25-4714) (left) or Anti-Human/Non-Human Primate CD8b PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human/Non-Human Primate CD8b PE-Cyanine7
REF **Catalog Number:** 25-5273
Clone: SIDI8BEE
Concentration: 5 uL (0.25 ug)/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.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial
⚠ **Contains sodium azide**

Description

The SIDI8BEE monoclonal antibody reacts with human and rhesus macaque CD8 beta. The CD8b chain associates with the CD8a chain to form the CD8ab heterodimer expressed on the surface of a majority of thymocytes, and on peripheral cytotoxic alphabeta TCR T cells. The CD8 receptor complex binds to MHC class I and plays a role in T cell development and activation of mature T cells. Long been thought to exist either as a heterodimer of the alpha and beta chain or as a homodimer of alpha chains, beta chains have now been shown to homodimerize as well. SIDI8BEE can detect the CD8 beta chain in both the CD8ab heterodimer and the CD8bb homodimer.

SIDI8BEE is cross-reactive to human and rhesus macaque CD8b. Other non-human primate species have not been tested.

Applications Reported

This SIDI8BEE antibody has been reported for use in flow cytometric analysis.

Applications Tested

This SIDI8BEE antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. 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 uL cell sample + 100 uL 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

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after fixation can be made, but clone specific performance should be determined empirically.

References

Thakral D, Dobbins J, Devine L, Kavathas PB. Differential expression of the human CD8beta splice variants and regulation of the M-2 isoform by ubiquitination. J Immunol. 2008 Jun 1;180(11):7431-42.

Devine L, Thakral D, Nag S, Dobbins J, Hodsdon ME, Kavathas PB. Mapping the binding site on CD8 beta for MHC class I reveals mutants with enhanced binding. J Immunol. 2006 Sep 15;177(6):3930-8.

Devine L, Kieffer LJ, Aitken V, Kavathas PB. Human CD8 beta, but not mouse CD8 beta, can be expressed in the absence of CD8 alpha as a beta beta homodimer. J Immunol. 2000 Jan 15;164(2):833-8.

Related Products

00-4222 Flow Cytometry Staining Buffer
11-0087 Anti-Human CD8a FITC (SK1 (SK-1))

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