

# CD8b Monoclonal Antibody (SID18BEE), Super Bright™ 702, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human, Non-human primate
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 702, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SID18BEE
Conjugate	Super Bright™ 702
Excitation/Emission Max	413/702 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4°C, store in dark, DO NOT FREEZE!
RRID	AB_2762636

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	-

## Product Specific Information

**Description:** The SID18BEE 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 alpha beta 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. SID18BEE can detect the CD8 beta chain in both the CD8ab heterodimer and the CD8bb homodimer.

SID18BEE is cross-reactive to human and rhesus macaque CD8b. Other non-human primate species have not been tested.

**Applications Reported:** This SID18BEE antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This SID18BEE antibody has been pre-titrated and tested by flow cytometric analysis of human peripheral blood lymphocytes. 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<sup>5</sup> to 10<sup>8</sup> cells /test.

Super Bright 702 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 702 nm. We recommend using a 710/50 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet

for Super Bright Staining Buffer for more information.

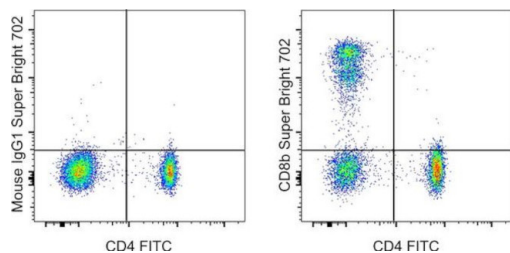
**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

**Fixation:** Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100  $\mu$ L of cell sample + 100  $\mu$ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 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.

**Excitation:** 405 nm; **Emission:** 702 nm; **Laser:** Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

## Product Images For CD8b Monoclonal Antibody (SID18BEE), Super Bright™ 702, eBioscience™



### CD8b Antibody (67-5273-42) in Flow

Normal human peripheral blood cells were stained with CD4 Monoclonal Antibody, FITC (Product # 11-0049-42) and Mouse IgG1 kappa Isotype Control, Super Bright 702 (Product # 67-4714-82) (left) or CD8b Monoclonal Antibody, Super Bright 702 (right). Cells in the lymphocyte gate were used for analysis.

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