

CD8a Monoclonal Antibody (SK1), Super Bright™ 600, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SK1
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 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_2735024

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	8 Publications

Product Specific Information

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 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 10⁵ to 10⁸ cells/test.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 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.

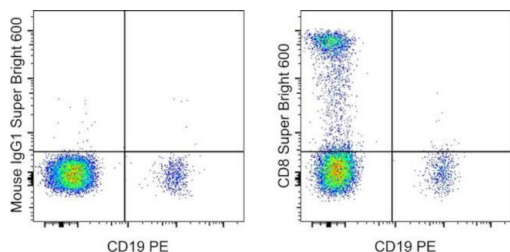
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 2-8°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorochrome performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 600 nm; Laser: Violet Laser

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

Product Images For CD8a Monoclonal Antibody (SK1), Super Bright™ 600, eBioscience™



CD8a Antibody (63-0087-42) in Flow

Staining of normal human peripheral blood cells with CD19 Monoclonal Antibody, PE (Product # 12-0199-42) and Mouse IgG1 kappa Isotype Control, Super Bright 600 (Product # 63-4714-80) (left) or CD8a Monoclonal Antibody, Super Bright 600 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](#)

8 References

Flow Cytometry (8)

Frontiers in immunology

Dynamics of humoral and cellular response to three doses of anti-SARS-CoV-2 BNT162b2 vaccine in patients with hematological malignancies and older subjects.

Year
2024

"Published figure using CD8a monoclonal antibody (Product # 63-0087-42) in Flow Cytometry"

Authors: Laquintana V, Mottini C, Marchesi F, Marcozzi B, Terrenato I, Sperandio E, de Latouliere L, Carrieri F, Pimpinelli F, Pontone M, Pellini R, Campo F, Conti L, Accetta C, Mandoj C, Petrone F, Di Bella O, Vujovic B, Morrone A, Compagnone M, Principato E, Pinto E, Papa E, Falcucci P, La Malfa A, Pallocca M, De Marco F, Piaggio G, Ciilberto G, Mengarelli A, di Martino S

Nature

RASA2 ablation in T cells boosts antigen sensitivity and long-term function.

Year
2022

"Published figure using CD8a monoclonal antibody (Product # 63-0087-42) in Flow Cytometry"

Authors: Carnevale J, Shifrut E, Kale N, Nyberg WA, Blaeschke F, Chen YY, Li Z, Bapat SP, Diolaiti ME, O'Leary P, Vedova S, Belk J, Daniel B, Roth TL, Bachl S, Anido AA, Prinzing B, Ibañez-Vega J, Lange S, Haydar D, Luetke-Eversloh M, Born-Bony M, Hegde B, Kogan S, Feuchtinger T, Okada H, Satpathy AT, Shannon K, Gottschalk S, Eyquem J, Krenciute G, Ashworth A, Marson A

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More applications with references on thermofisher.com

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