

CD8a Monoclonal Antibody (SK1), PE-Cyanine7, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human, Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SK1
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10733019

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	10 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 (0.06 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.

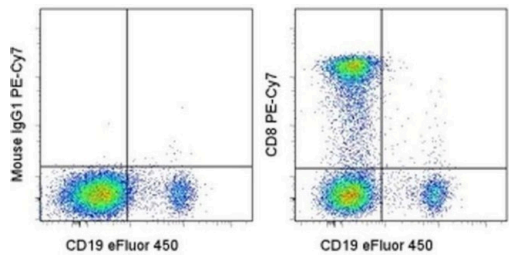
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-822-49) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) 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: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD8a Monoclonal Antibody (SK1), PE-Cyanine7, eBioscience™



CD8a Antibody (25-0087-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD19 eFluor® 450 (Product # 48-0199-42) and Mouse IgG1 K Isotype Control PE-Cyanine7 (Product # 25-4714-80) (left) or Anti-Human CD8a PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

10 References

Flow Cytometry (10)

<p>Nature</p> <p>RASA2 ablation in T cells boosts antigen sensitivity and long-term function.</p> <p>"25-0087-42 was used in Flow cytometry/Cell sorting to highlight RASA2 as a promising target to enhance both persistence and effector function in T cell therapies for cancer treatment."</p> <p>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</p>	<p>Year</p> <p>2022</p>
	<p>Species</p> <p>Human</p>
<p>Scientific reports</p> <p>PAX8 lineage-driven T cell engaging antibody for the treatment of high-grade serous ovarian cancer.</p> <p>"Published figure using CD8a monoclonal antibody (Product # 25-0087-42) in Flow Cytometry"</p> <p>Authors: Lee E, Szvetecz S, Polli R, Grauel A, Chen J, Judge J, Jaiswal S, Maeda R, Schwartz S, Voedisch B, Piksa M, Japutra C, Sadhasivam L, Wang Y, Carrion A, Isim S, Liang J, Nicholson T, Lei H, Fang Q, Steinkrauss M, Walker D, Wagner J, Cremasco V, Wang HQ, Galli GG, Granda B, Mansfield K, Simmons Q, Nguyen AA, Vincent Jordan N</p>	<p>Year</p> <p>2021</p>

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