

CD8a Monoclonal Antibody (RPA-T8), Super Bright™ 780, 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™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RPA-T8
Conjugate	Super Bright™ 780
Excitation/Emission Max	413/780 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4°C, store in dark, DO NOT FREEZE!
RRID	AB_2724102

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	19 Publications

Product Specific Information

Description: The RPA-T8 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 RPA-T8 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This RPA-T8 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may 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 10⁵ to 10⁸ cells/test.

Super Bright 780 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 780 nm. We recommend using a 780/60 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.

In some experiments, we have observed that compensation values for Super Bright 780-conjugated antibodies are higher in the violet 450/50 channel when using UltraComp eBeads microspheres (Product # 01-2222-42) as compared to single-color stained cells. In such circumstances, we would recommend setting compensation with cells. We have also observed this in some experiments using AbC Total Antibody Compensation beads (Product # A10497).

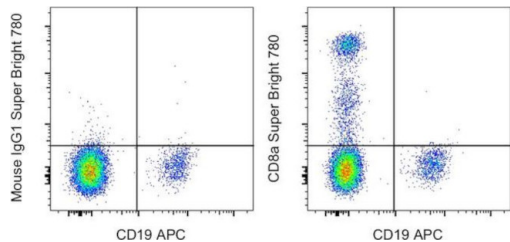
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL 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: 780 nm; Laser: Violet Laser

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

Product Images For CD8a Monoclonal Antibody (RPA-T8), Super Bright™ 780, eBioscience™



CD8a Antibody (78-0088-42) in Flow

Normal human peripheral blood cells cells were stained with CD19 Monoclonal Antibody, APC (Product # 17-0119-82) and Mouse IgG1 kappa Isotype Control, Super Bright 780 (Product # 78-4714-82) (left) or CD8a Monoclonal Antibody, Super Bright 780 (right). Cells in the lymphocyte gate were used for analysis.

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Immunohistochemistry (1)

Open life sciences	Year 2022
Changes of immune cells in patients with hepatocellular carcinoma treated by radiofrequency ablation and hepatectomy, a pilot study.	
"Published figure using CD8a monoclonal antibody (Product # 78-0088-42) in Immunohistochemistry"	
Authors: Yu Z,Li G,Yu H,Asakawa T	

Flow Cytometry (19)

STAR protocols	Year 2024
Protocol for isolation of tumor-derived extracellular vesicles and functional studies on human T cell subsets.	
"Published figure using CD8a monoclonal antibody (Product # 78-0088-42) in Flow Cytometry"	
Authors: Swatler J,Targoska A,Turos-Korgul L,Mosieniak G,Piwocka K	

Nature communications	Year 2024
Mucosal prime-boost immunization with live murine pneumonia virus-vectored SARS-CoV-2 vaccine is protective in macaques.	
"Published figure using CD8a monoclonal antibody (Product # 78-0088-42) in Flow Cytometry"	
Authors: Kaiser JA,Nelson CE,Liu X,Park HS,Matsuoka Y,Luongo C,Santos C,Ahlers LRH,Herbert R,Moore IN,Wilder-Kofie T,Moore R,Walker A,Yang L,Munir S,Teng IT,Kwong PD,Dowdell K,Nguyen H,Kim J,Cohen JI,Johnson RF,Garza NL,Via LE,Barber DL,Buchholz UJ,Le Nouën C	

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