

CD8a Monoclonal Antibody (RPA-T8), Super Bright™ 645, 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™ 645, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | RPA-T8 |
| Conjugate | Super Bright™ 645 |
| 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_2662357 |

| Applications | Tested Dilution | Publications |
|----------------------------|---------------------|----------------|
| Immunohistochemistry (IHC) | - | 1 Publication |
| Flow Cytometry (Flow) | 5µL (0.125 µg)/test | 4 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-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 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 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 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.

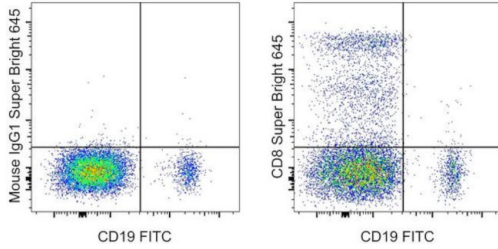
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L of cell sample + 100 μ L of 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 after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 645 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™ 645, eBioscience™



CD8a Antibody (64-0088-42) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD19 FITC (Product # 11-0199-42) and Mouse IgG1 K Isotype Control Super Bright 645 (Product # 64-4714-82) (left) or Anti-Human CD8a Super Bright 645 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

5 References

Immunohistochemistry (1)

Open life sciences

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 # 64-0088-42) in Immunohistochemistry"

Authors: Yu Z, Li G, Yu H, Asakawa T

Year
2022

Flow Cytometry (4)

Oncotarget

Multipeptide stimulated PBMCs generate T_{EM}/T_{CM} for adoptive cell therapy in multiple myeloma.

"Published figure using CD8a monoclonal antibody (Product # 64-0088-42) in Flow Cytometry"

Authors: Vardam-Kaur T, Pathangey LB, McCormick DJ, Bergsagel PL, Cohen PA, Gendler SJ

Year
2021

Theranostics

Human endoglin-CD3 bispecific T cell engager antibody induces anti-tumor effect *in vivo*.

"Published figure using CD8a monoclonal antibody (Product # 64-0088-42) in Flow Cytometry"

Authors: Zhong L, Shi W, Gan L, Liu X, Huo Y, Wu P, Zhang Z, Wu T, Peng H, Huang Y, Zhao Y, Yuan Y, Deng Z, Tang H

Year
2021

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.