

# CD8a Monoclonal Antibody (RPA-T8), Super Bright™ 436, 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™ 436, eBioscience™ |
| Class                       | Monoclonal   |
| Type                        | Antibody   |
| Clone                       | RPA-T8   |
| Conjugate                   | Super Bright™ 436  |
| 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_2688235   |

| Applications               | Tested Dilution     | Publications   |
|----------------------------|---------------------|----------------|
| Immunohistochemistry (IHC) | -                   | 1 Publication  |
| Flow Cytometry (Flow)      | 5 µL (0.25 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 (0.25 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.

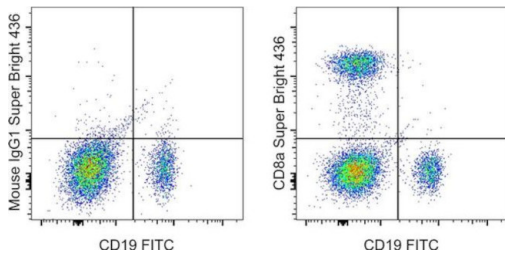
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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.

Excitation: 405 nm; Emission: 436 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™ 436, eBioscience™



### CD8a Antibody (62-0088-42) in Flow

Normal human peripheral blood cells were stained with CD19 Monoclonal Antibody, FITC (Product # 11-0199-42) and Mouse IgG1 kappa Isotype Control, Super Bright 436 (Product # 62-4714-82) (left) or CD8a Monoclonal Antibody, Super Bright 436 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on 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 # 62-0088-42) 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 # 62-0088-42) 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 # 62-0088-42) 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

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