

CD8a Monoclonal Antibody (53-6.7), Super Bright™ 436, eBioscience™

| Product Details | |
|-----------------------------|--|
| Size | 25 µg |
| Species Reactivity | Mouse |
| Published Species | Mouse |
| Host/Isotype | Rat / IgG2a, kappa |
| Recommended Isotype Control | Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 436, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | 53-6.7 |
| Conjugate | Super Bright™ 436 |
| Excitation/Emission Max | 413/431 nm |
| Form | Liquid |
| Concentration | 0.2 mg/mL |
| 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_2716980 |

| Applications | Tested Dilution | Publications |
|----------------------------|-----------------|-----------------|
| Immunohistochemistry (IHC) | - | 11 Publications |
| Flow Cytometry (Flow) | 0.25 µg/test | 87 Publications |

Product Specific Information

Description: The 53-6.7 monoclonal antibody reacts with the mouse CD8a molecule. CD8a is 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 alpha beta TCR T cells express CD8 alpha beta while gamma delta TCR T cells, a subpopulation of intestinal intraepithelial lymphocytes (IELs) and dendritic cells express CD8 alpha alpha. 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 53-6.7 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 53-6.7 antibody has been tested by flow cytometric analysis of mouse splenocytes. This may be used at less than or equal to 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

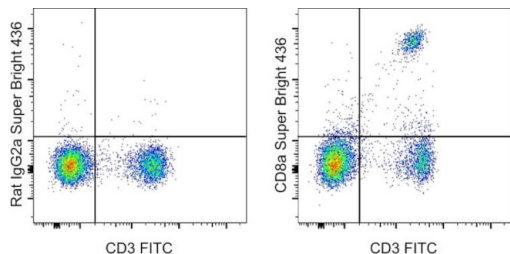
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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 (53-6.7), Super Bright™ 436, eBioscience™



CD8a Antibody (62-0081-80) in Flow

BALB/c mouse splenocytes were stained with CD3 Monoclonal Antibody, FITC (Product # 11-0032) and 0.125 µg of Rat IgG2a kappa Isotype Control, Super Bright 436 (Product # 62-4321) (left) or 0.125 µg of CD8a Monoclonal Antibody, Super Bright 436 (right). Cells in the lymphocyte gate were used for analysis.

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

Immunohistochemistry (11)

EMBO molecular medicine

The regulatory relationship between NAMPT and PD-L1 in cancer and identification of a dual-targeting inhibitor.

"Published figure using CD8a monoclonal antibody (Product # 62-0081-82) in Immunohistochemistry"

Authors: Yang Y, Li Z, Wang Y, Gao J, Meng Y, Wang S, Zhao X, Tang C, Yang W, Li Y, Bao J, Fan X, Tang J, Yang J, Wu C, Qin M, Wang L

Year
2024

Current neuropharmacology

Tumor-selective Blockade of CD47 Signaling with CD47 Antibody for Enhanced Anti-tumor Activity in Malignant Meningioma.

"Published figure using CD8a monoclonal antibody (Product # 62-0081-82) in Immunohistochemistry"

Authors: Liu X, Zhang H, Wang C, Li Z, Zhu Q, Feng Y, Fan J, Qi S, Wu Z, Liu Y

Year
2023

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

Flow Cytometry (87)

Journal of experimental & clinical cancer research : CR

CCAAT enhancer binding protein delta activates vesicle associated membrane protein 3 transcription to enhance chemoresistance and extracellular PD-L1 expression in triple-negative breast cancer.

"Published figure using CD8a monoclonal antibody (Product # 62-0081-82) in Flow Cytometry"

Authors: Zhao Y, Yu Y, Li X, Guo A

Year
2024

International journal of molecular sciences

Tumor-Extrinsic Axl Expression Shapes an Inflammatory Microenvironment Independent of Tumor Cell Promoting Axl Signaling in Hepatocellular Carcinoma.

"Published figure using CD8a monoclonal antibody (Product # 62-0081-82) in Flow Cytometry"

Authors: Breitenecker K, Heiden D, Demmer T, Weber G, Primorac AM, Hedrich V, Ortmayr G, Gruenberger T, Starlinger P, Herndlner-Brandstetter D, Barozzi I, Mikulits W

Year
2024

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

More applications with references on thermofisher.com

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