

# CD8a Monoclonal Antibody (OX8), Super Bright™ 600, eBioscience™

Product Details	
Size	25 µg
Published Species	Rat
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OX8
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 nm
Form	Liquid
Concentration	0.2 mg/mL
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2784848

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1.0 µg/test	1 Publication

## Product Specific Information

Description: The OX8 monoclonal antibody reacts with rat CD8 alpha. CD8 alpha is a member of the immunoglobulin superfamily which heterodimerizes with CD8 beta to form the CD8 antigen expressed on CD4+CD8+, double-positive thymocytes, the majority of MHC class I-restricted peripheral T cells, and on some macrophages. CD8 binds to MHC class I expressed on the surface of antigen-presenting cells during antigen presentation, and participates in T-cell receptor signal transduction through association with the kinase Lck.™

Applications Reported: This OX8 antibody has been reported for use in flow cytometric analysis.™

Applications Tested: This OX8 antibody has been tested by flow cytometric analysis of rat splenocytes. This may be used at less than or equal to 1.0 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.™

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 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. Please protect this vial and stained samples from light.™

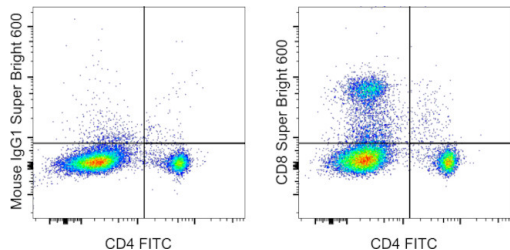
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) for up to 3 days in the dark at 4°C with minimal impact on

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: 600 nm; Laser: Violet Laser™

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

## Product Images For CD8a Monoclonal Antibody (OX8), Super Bright™ 600, eBioscience™



### CD8a Antibody (63-0084-80) in Flow

Wistar rat splenocytes were stained with CD4 Monoclonal Antibody, FITC (Product # 11-0040-82) and 1.0 µg of Mouse IgG1 kappa Isotype Control, Super Bright 600 (Product # 63-4714-82) (left) or 1.0 µg of CD8a Monoclonal Antibody, Super Bright 600 (right). Cells in the lymphocyte gate were used for analysis.

## 1 Reference

### Flow Cytometry (1)

#### Cell death & disease

### Genetic inactivation of RIP1 kinase activity in rats protects against ischemic brain injury.

"63-0084-82 was used in Flow cytometry/Cell sorting to highlight the utility of the RIP1 KD rats for target validation and biomarker studies for neurological disorders."

Authors: Stark K, Goncharov T, Varfolomeev E, Xie L, Ngu H, Peng I, Anderson KR, Verschueren E, Choi M, Kirkpatrick DS, Easton A, Webster JD, McKenzie BS, Vucic D, Bingol B

Year  
2021

Species  
Rat

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