

CD8a Monoclonal Antibody (OX8), Super Bright™ 780, eBioscience™

| Product Details | |
|-----------------------------|--|
| Size | 25 µg |
| Species Reactivity | Rat |
| 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 | OX8 |
| Conjugate | Super Bright™ 780 |
| Excitation/Emission Max | 413/780 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_2784895 |

| Applications | Tested Dilution | Publications |
|-----------------------|-----------------|--------------|
| Flow Cytometry (Flow) | 1.0 µg/test | - |

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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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.

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).

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.

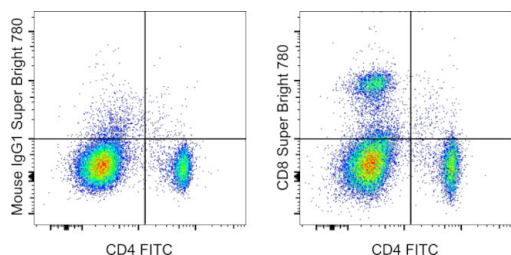
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 μ L of cell sample + 100 μ L 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:** 780 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™ 780, eBioscience™



CD8a Antibody (78-0084-80) in Flow

Wistar rat splenocytes were stained with CD4 Monoclonal Antibody, FITC (Product # 11-0040-82) and 1.0 μ g of Mouse IgG1 kappa Isotype Control, Super Bright 780 (Product # 78-4714-82) (left) or 1.0 μ g of CD8a Monoclonal Antibody, Super Bright 780 (right). Cells in the lymphocyte gate were used for analysis.

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