

# CD4 Monoclonal Antibody (OX35), Super Bright™ 600, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Rat
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OX35
Conjugate	Super Bright™ 600
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_2762766

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1.0 µg/test	2 Publications

## Product Specific Information

**Description:** The OX35 monoclonal antibody reacts with rat CD4. CD4 is a co-receptor which participates in signaling through the T cell receptor by making contacts with MHC class II expressed on antigen-presenting cells (APC). CD4 is expressed in the thymus by CD4+CD8+ "double-positive" and CD4+ "single-positive" thymocytes, and by CD4+ "helper" T cells in the periphery. CD4 is a cell-surface membrane glycoprotein which contains four extracellular immunoglobulin-like domains.

**Applications Reported:** This OX35 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This OX35 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.

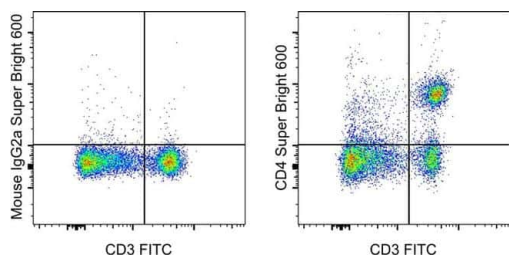
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100  $\mu$ L of cell sample + 100  $\mu$ 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: 600 nm; Laser: Violet Laser

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

## Product Images For CD4 Monoclonal Antibody (OX35), Super Bright™ 600, eBioscience™



### CD4 Antibody (63-0040-80) in Flow

Wistar rat splenocytes were stained with CD3 Monoclonal Antibody, FITC (Product # 11-0030-82) and 0.5  $\mu$ g of Mouse IgG2a kappa Isotype Control, Super Bright 600 (Product # 63-4724-82) (left) or 0.5  $\mu$ g of CD4 Monoclonal Antibody, Super Bright 600 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](#)

## 2 References

### Flow Cytometry (2)

PloS one

#### The SRG rat, a Sprague-Dawley Rag2/Il2rg double-knockout validated for human tumor oncology studies.

"Published figure using CD4 monoclonal antibody (Product # 63-0040-82) in Flow Cytometry"

Authors: Noto FK, Sangodkar J, Adedeji BT, Moody S, McClain CB, Tong M, Ostertag E, Crawford J, Gao X, Hurst L, O'Connor CM, Hanson EN, Izadmehr S, Tohmé R, Narla J, LeSueur K, Bhattacharya K, Rupani A, Tayeh MK, Innis JW, Galsky MD, Evers BM, DiFeo A, Narla G, Jamling TY

Year  
2020

Aging

#### Ginsenoside RG1 enhances the paracrine effects of bone marrow-derived mesenchymal stem cells on radiation induced intestinal injury.

"Published figure using CD4 monoclonal antibody (Product # 63-0040-82) in Flow Cytometry"

Authors: Luo Y, Wang B, Liu J, Ma F, Luo D, Zheng Z, Lu Q, Zhou W, Zheng Y, Zhang C, Wang Q, Sha W, Chen H

Year  
2020

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