

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

Product Details	
Size	25 µg
Species Reactivity	Rat
Published Species	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
Excitation/Emission Max	414/601 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_2762766

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	1.0 µg/test	17 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.

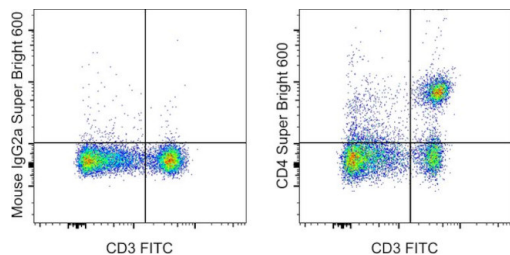
**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

**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](https://www.thermofisher.com)

## Immunohistochemistry (1)

### Scientific reports

#### **An inducible rodent glaucoma model that exhibits gradual sustained increase in intraocular pressure with distinct inner retina and optic nerve inflammation.**

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

Authors: Mathew DJ,Livne-Bar I,Sivak JM

Year  
2021

## Flow Cytometry (17)

### Immunity, inflammation and disease

#### **Resolvin D1 promotes the resolution of inflammation in the ACLF rat model by increasing the proportion of Treg cells.**

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

Authors: Chen L,Huang Y,Chen Y,Chen J,You X,Zou L,Chen J,Chen Z,Wang X,Huang Y

Year  
2023

### Chinese medicine

#### **Fermented cordyceps powder alleviates silica-induced pulmonary inflammation and fibrosis in rats by regulating the Th immune response.**

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

Authors: Pu S,Yang Z,Zhang X,Li M,Han N,Yang X,He J,Yu G,Meng X,Jia Q,Shao H

Year  
2023

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## More applications with references on thermofisher.com

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