CD4 Monoclonal Antibody (OX35), Super Bright™ 436, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Rat
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OX35
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_2762727

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	1.0 µg/test	13 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

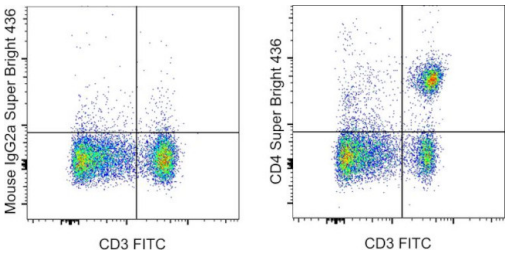
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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 CD4 Monoclonal Antibody (OX35), Super Bright™ 436, eBioscience™



CD4 Antibody (62-0040-82) in Flow
Wistar rat splenocytes were stained with CD3 Monoclonal Antibody, FITC (Product # 11-0030-82) and 0.5 µg of Mouse IgG2a kappa Isotype Control, Super Bright 436 (Product # 62-4724-82) (left) or 0.5 µg of CD4 Monoclonal Antibody, Super Bright 436 (right). Cells in the lymphocyte gate were used for analysis.

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14 References

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.

Year 2021

"Published figure using CD4 monoclonal antibody (Product # 62-0040-82) in Immunocytochemistry"

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

Flow Cytometry (13)

Frontiers in immunology

Effect of GnRH immunocastration on immune function in male rats.

Year 2023

"Published figure using CD4 monoclonal antibody (Product # 62-0040-82) in Flow Cytometry"

Authors: Pan F,Du H,Tian W,Xie H,Zhang B,Fu W,Li Y,Ling Y,Zhang Y,Fang F,Liu Y

Biochemistry research international

miR-21 Regulates Immune Balance Mediated by Th17/Treg in Peripheral Blood of Septic Rats during the Early Phase through Apoptosis Pathway.

Year 2022

"Published figure using CD4 monoclonal antibody (Product # 62-0040-82) in Flow Cytometry"

Authors: Liu C,Zou Q

View more Flow references on thermofisher.com

More applications with references on thermofisher.com