

# CD4 Monoclonal Antibody (OKT4 (OKT-4)), Super Bright™ 436, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OKT4 (OKT-4)
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 nm
Form	Liquid
Concentration	5 µL/Test
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_2744764

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	7 Publications

## Product Specific Information

**Description:** The OKT4 monoclonal antibody reacts with human CD4, a 59 kDa cell surface glycoprotein expressed by the majority of thymocytes, a subpopulation of mature T cells (T-helper cells) and in low levels on monocytes. CD4 is a receptor for the human immunodeficiency virus (HIV). The OKT4 antibody recognizes a different epitope than the RPA-T4 monoclonal antibody, and these antibodies do not cross-block binding to each other's respective epitopes.

**Applications Reported:** This OKT4 (OKT-4) antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This OKT4 (OKT-4) antibody has been pre-titrated and tested by flow cytometric analysis of normal human blood peripheral blood cells. This can be used at 5 µL (0.125 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.

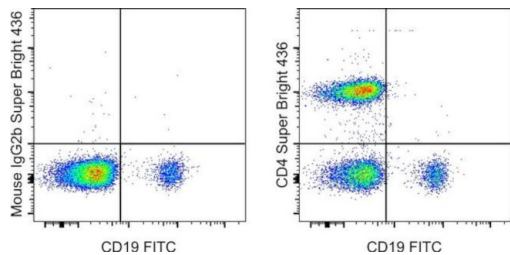
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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 (OKT4 (OKT-4)), Super Bright™ 436, eBioscience™



**CD4 Antibody (62-0048-42) in Flow**  
Normal human peripheral blood cells were stained with CD19 Monoclonal Antibody, FITC (Product # 11-0119-82) and Mouse IgG2b kappa Isotype Control, Super Bright 436 (Product # 62-4724-82) (left) or CD4 Monoclonal Antibody, Super Bright 436 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

7 References

Flow Cytometry (7)

Disease markers	Year 2022
<b>Estrogen Protects against Renal Ischemia-Reperfusion Injury by Regulating Th17/Treg Cell Immune Balance.</b>	
"Published figure using CD4 monoclonal antibody (Product # 62-0048-42) in Flow Cytometry"	
Authors: Zhang Y,Chang Y,Han Z,Ma K,Zeng X,Li L	
Pathogens & immunity	Year 2022
<b>Plasma Extracellular Vesicle Subtypes May be Useful as Potential Biomarkers of Immune Activation in People With HIV.</b>	
"Published figure using CD4 monoclonal antibody (Product # 62-0048-42) in Flow Cytometry"	
Authors: Bazié WW,Boucher J,Vitry J,Goyer B,Routy JP,Tremblay C,Trottier S,Jenabian MA,Provost P,Alary M,Gilbert C	

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