

# CD3e Monoclonal Antibody (145-2C11), Super Bright™ 436, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	145-2C11
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_2784796

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	7 Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	1.0 µg/Test	40 Publications
ELISA (ELISA)	-	1 Publication

## Product Specific Information

**Description:** The 145-2C11 monoclonal antibody reacts with mouse CD3e, a 20 kDa subunit of the TCR complex. Along with the other CD3 subunits, gamma and delta, the epsilon chain is required for proper assembly, trafficking and surface expression of the TCR complex. CD3 is expressed by thymocytes in a developmentally regulated manner and by all mature T cells. Binding of 145-2C11 to TCR initiates the intracellular biochemical pathway resulting in cellular activation, proliferation, and apoptosis depending on specific conditions utilized. 145-2C11 is commonly used as a phenotypic marker for mouse T cells.

**Applications Reported:** This 145-2c11 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This 145-2c11 antibody has been tested by flow cytometric analysis of mouse 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.

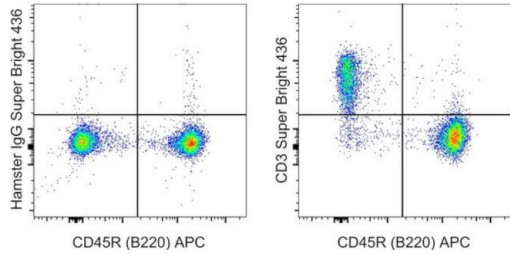
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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 CD3e Monoclonal Antibody (145-2C11), Super Bright™ 436, eBioscience™**



**CD3e Antibody (62-0031-82) in Flow**  
C57BL/6 mouse splenocytes were stained with CD45R (B220) Monoclonal Antibody, APC (Product # 17-0452-82) and 1.0 µg of Armenian Hamster IgG Isotype Control, Super Bright 436 (Product # 62-4888-82) (left) or 1.0 µg of CD3 Monoclonal Antibody, Super Bright 436 (right). Cells in the lymphocyte gate were used for analysis.

**View more figures on [thermofisher.com](https://thermofisher.com)**

## Immunohistochemistry (7)

<p>Frontiers in pharmacology</p> <p><b>Pomegranate Peel Extract Decreases Plaque Necrosis and Advanced Atherosclerosis Progression in <i>Apoe</i> Mice.</b></p> <p>"Published figure using CD3e monoclonal antibody (Product # 62-0031-82) in Immunohistochemistry"</p> <p>Authors: Manickam V,Dhawan UK,Singh D,Gupta M,Subramanian M</p>	<p>Year 2022</p>
<p>Cell reports</p> <p><b>Btla signaling in conventional and regulatory lymphocytes coordinately tempers humoral immunity in the intestinal mucosa.</b></p> <p>"Published figure using CD3e monoclonal antibody (Product # 62-0031-82) in Immunohistochemistry"</p> <p>Authors: Stienne C,Virgen-Slane R,Elmén L,Veny M,Huang S,Nguyen J,Chappell E,Balmert MO,Shui JW,Hurchla MA,Kronenberg M,Peterson SN,Murphy KM,Ware CF,Šedý JR</p>	<p>Year 2022</p>

[View more IHC references on thermofisher.com](#)

## Immunocytochemistry (1)

<p>Frontiers in immunology</p> <p><b>Optimization of Organotypic Cultures of Mouse Spleen for Staining and Functional Assays.</b></p> <p>"Published figure using CD3e monoclonal antibody (Product # 62-0031-82) in Immunocytochemistry"</p> <p>Authors: Finetti F,Capitani N,Manganaro N,Tatangelo V,Libonati F,Panattoni G,Calaresu I,Ballerini L,Baldari CT,Patrussi L</p>	<p>Year 2021</p>
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## Flow Cytometry (40)

<p>Diabetes</p> <p><b>Adipocyte-Secreted IL-6 Sensitizes Macrophages to IL-4 Signaling.</b></p> <p>"Published figure using CD3e monoclonal antibody (Product # 62-0031-82) in Flow Cytometry"</p> <p>Authors: Luan D,Dadpey B,Zaid J,Bridge-Comer PE,DeLuca JH,Xia W,Castle J,Reilly SM</p>	<p>Year 2023</p>
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## More applications with references on thermofisher.com

## ELISA (1)

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