

CD3e Monoclonal Antibody (145-2C11), PE-Cyanine5, eBioscience™

Product Details	
Size	100 µg
Species	Mouse
Published Species	Artificial Control, Mouse, Human
Expression System	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), PE-Cyanine5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	145-2C11
Conjugate	PE-Cyanine5
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_468690

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	91 Publications
Functional Assay (FN)	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications

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: The 145-2C11 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The 145-2C11 antibody has been tested by flow cytometric analysis of mouse thymocytes and splenocytes. This can be used at less than or equal to 0.25 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

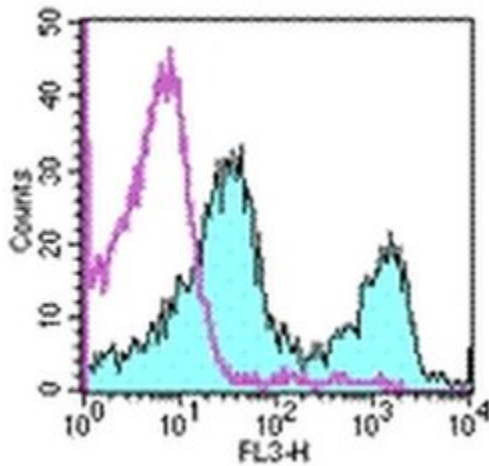
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L cell sample + 100 μ L IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) 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: 488-561 nm; Emission: 667 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 μ m post-manufacturing filtered.

Product Images For CD3e Monoclonal Antibody (145-2C11), PE-Cyanine5, eBioscience™



CD3e Antibody (15-0031-82) in Flow

Staining of BALB/c splenocytes with staining buffer (autofluorescence) (open histogram) or 0.125 μ g of Anti-Mouse CD3e PE-Cyanine5 (filled histogram). Total cells were used for analysis.

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

94 References

Flow Cytometry (91)

Frontiers in immunology

Tp12 Protects Against Fulminant Hepatitis Through Mobilization of Myeloid-Derived Suppressor Cells.

"Published figure using CD3e monoclonal antibody (Product # 15-0031-82) in Flow Cytometry"

Authors: Xu J,Pei S,Wang Y,Liu J,Qian Y,Huang M,Zhang Y,Xiao Y

Species
Not Applicable

Dilution
Not Cited

Year
2020

Journal of cellular and molecular medicine

Enhanced alleviation of aGVHD by TGF-1-modified mesenchymal stem cells in mice through shifting M into M2 phenotype and promoting the differentiation of Treg cells.

"Published figure using CD3e monoclonal antibody (Product # 15-0031-82) in Flow Cytometry"

Authors: Wu R,Liu C,Deng X,Chen L,Hao S,Ma L

Species
Artificial Control

Dilution
Not Cited

Year
2020

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

Immunohistochemistry (Frozen) (2)

International journal of cancer

HSP70 vaccine in combination with gene therapy with plasmid DNA encoding sPD-1 overcomes immune resistance and suppresses the progression of pulmonary metastatic melanoma.

Authors: Geng H,Zhang GM,Xiao H,Yuan Y,Li D,Zhang H,Qiu H,He YF,Feng ZH

Species
Not Applicable

Dilution
Not Cited

Year
2006

Investigative ophthalmology and visual science

CCR5-deficient mice develop experimental autoimmune uveoretinitis in the context of a deviant effector response.

Authors: Takeuchi A,Usui Y,Takeuchi M,Hattori T,Kezuka T,Suzuki J,Okunuki Y,Iwasaki T,Haino M,Matsushima K,Usui M

Species
Not Applicable

Dilution
Not Cited

Year
2005

More applications with references on thermofisher.com

FN (1)

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