

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	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
Excitation/Emission Max	568/666 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_468690

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Flow Cytometry (Flow)	0.25 µg/test	142 Publications
Functional Assay (FN)	-	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: 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.

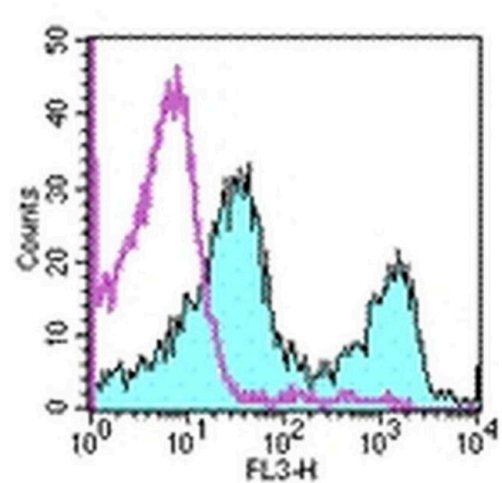
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-822-49) (100 µL cell sample + 100 µL IC Fixation Buffer) or

1-step Fix/Lyse Solution (Product # 00-5333-54) 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 µm 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 µg of Anti-Mouse CD3e PE-Cyanine5 (filled histogram). Total cells were used for analysis.

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Immunohistochemistry (Frozen) (2)

International journal of cancer	Year 2006
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	

Investigative ophthalmology & visual science	Year 2005
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	

Flow Cytometry (142)

Cell death & disease	Year 2023
OTULIN protects the intestinal epithelium from apoptosis during inflammation and infection.	Species Mouse
"15-0031-82 was used in Flow cytometry/Cell sorting to identify OTULIN as a major anti-apoptotic protein in the intestinal epithelium and provide mechanistic insights into how OTULIN deficiency drives gastrointestinal inflammation in ORAS patients."	
Authors: Verboom L,Anderson CJ,Jans M,Petta I,Blancke G,Martens A,Sze M,Hochepied T,Ravichandran KS,Vereecke L,van Loo G	

Diabetes	Year 2023
Adipocyte-Secreted IL-6 Sensitizes Macrophages to IL-4 Signaling.	
"Published figure using CD3e monoclonal antibody (Product # 15-0031-82) in Flow Cytometry"	
Authors: Luan D,Dadpey B,Zaid J,Bridge-Comer PE,DeLuca JH,Xia W,Castle J,Reilly SM	

View more Flow references on thermofisher.com

More applications with references on thermofisher.com

FN (1)

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