

CD3e Monoclonal Antibody (145-2C11), PE-Cyanine7, 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-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	145-2C11
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 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_469572

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	1 µg/test	122 Publications
Functional Assay (Functional)	-	2 Publications
T-Cell Activation (TCA)	-	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: This 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 1 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.

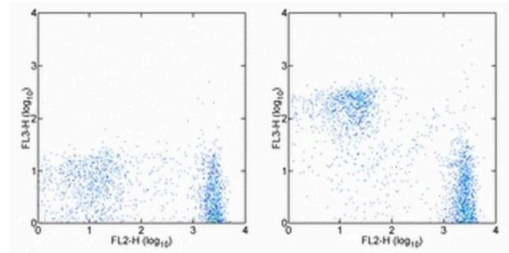
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

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: 775 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-Cyanine7, eBioscience™



CD3e Antibody (25-0031-82) in Flow
Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) PE (Product # 12-0452-82) and 0.5 µg of Armenian Hamster IgG Isotype Control PE-Cyanine7 (Product # 25-4888-82) (left) or 0.5 µg of Anti-Mouse CD3e PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

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	

Immunocytochemistry (2)

Cell reports	Year 2020
CD8⁺ T Cell Functional Exhaustion Overrides Pregnancy-Induced Fetal Antigen Alloimmunization.	Species Mouse
"25-0031-82 was used in Immunocytochemistry to demonstrate distinct mechanisms whereby fetal tolerance is maintained during primary compared with subsequent pregnancies."	
Authors: Kinder JM,Turner LH,Stelzer IA,Miller-Handley H,Burg A,Shao TY,Pham G,Way SS	
Gene therapy	Year 2014
rAAV9 combined with renal vein injection is optimal for kidney-targeted gene delivery: conclusion of a comparative study.	Species Mouse
"25-0031 was used in Immunofluorescence to report an optimised kidney-targeted gene delivery strategy using recombinant adeno-associated virus administered via retrograde renal vein injection in mice."	
Authors: Rocca CJ,Ur SN,Harrison F,Cherqui S	

More applications with references on thermofisher.cn

- Flow (122)
- Functional (2)
- TCA (1)

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