

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

Product Details	
Size	1 mg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	145-2C11
Conjugate	FITC
Excitation/Emission Max	498/517 nm
Form	Liquid
Concentration	0.5 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_464884

Applications	Tested Dilution	Publications
Western Blot (WB)	-	2 Publications
Immunohistochemistry (IHC)	-	16 Publications
Immunohistochemistry (Frozen) (IHC (F))	10 µg/mL	3 Publications
Immunocytochemistry (ICC/IF)	10 µg/mL	6 Publications
Flow Cytometry (Flow)	0.5 µg/test	269 Publications
Immunoprecipitation (IP)	-	1 Publication
Functional Assay (FN)	-	2 Publications
T-Cell Activation (TCA)	-	6 Publications
Miscellaneous PubMed (Misc)	-	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, and immunohistochemical staining of frozen tissue sections.

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 0.5 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. This 145-2C11 antibody has been tested by immunohistochemistry on frozen mouse spleen and can be used at less than or equal to 10 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

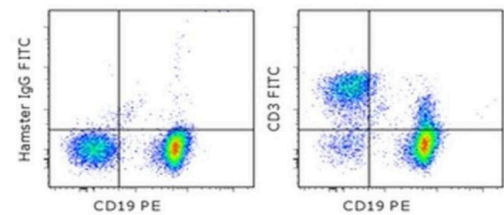
Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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

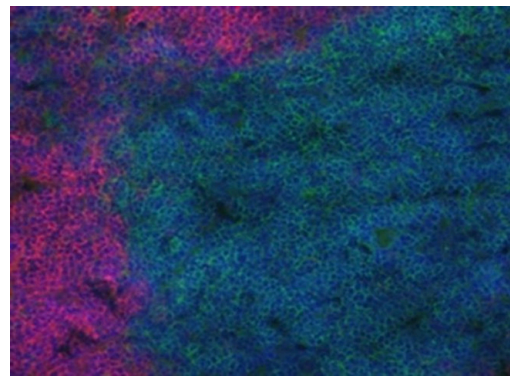
CD3e Antibody (11-0031-86) in Flow

Staining of C57Bl/6 splenocytes with Anti-Mouse CD19 PE (Product # 12-0193-82) and 0.25 µg of Armenian Hamster IgG Isotype Control FITC (Product # 11-4888-81) (left) or 0.25 µg of Anti-Mouse CD3e FITC (right). Cells in the lymphocyte gate were used for analysis.



CD3e Antibody (11-0031-86) in IHC (F)

Immunohistochemistry of frozen mouse spleen stained with 10 µg/mL Anti-Mouse CD3e FITC and costained with 10 µg/mL Anti-Human/Mouse CD45R (B220) eFluor® 660. Nuclei are stained with DAPI.



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Western Blot (2)

<p>Journal of the American Heart Association</p> <p>K_{Ca}3.1 Channels Promote Cardiac Fibrosis Through Mediating Inflammation and Differentiation of Monocytes Into Myofibroblasts in Angiotensin II -Treated Rats.</p> <p>"Published figure using CD3e monoclonal antibody (Product # 11-0031-82) in Western Blot"</p> <p>Authors: She G,Ren YJ,Wang Y,Hou MC,Wang HF,Gou W,Lai BC,Lei T,Du XJ,Deng XL</p>	<p>Year 2019</p>
<p>Nature communications</p> <p>Rabphilin 3A retains NMDA receptors at synaptic sites through interaction with GluN2A/PSD-95 complex.</p> <p>"Published figure using CD3e monoclonal antibody (Product # 11-0031-82) in Immunofluorescence"</p> <p>Authors: Stanic J,Carta M,Eberini I,Pelucchi S,Marcello E,Genazzani AA,Racca C,Mulle C,Di Luca M,Gardoni F</p>	<p>Year 2015</p>

Immunohistochemistry (16)

<p>Frontiers in pharmacology</p> <p>Pomegranate Peel Extract Decreases Plaque Necrosis and Advanced Atherosclerosis Progression in <i>Apoe</i> Mice.</p> <p>"Published figure using CD3e monoclonal antibody (Product # 11-0031-82) 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>Btla signaling in conventional and regulatory lymphocytes coordinately tempers humoral immunity in the intestinal mucosa.</p> <p>"Published figure using CD3e monoclonal antibody (Product # 11-0031-82) 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>

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- Misc (1)

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