

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotope	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	145-2C11
Conjugate	PE
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_465496

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	138 Publications
Functional Assay (FN)	-	1 Publication
Immunofluorescence (IF)	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	3 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.

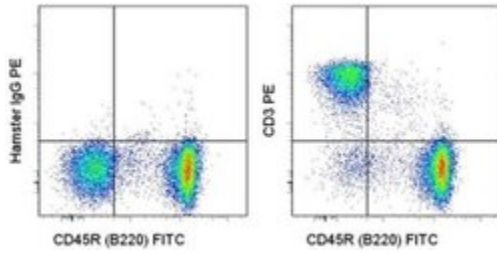
Applications Reported: The 145-2C11 antibody has been reported for use in flow cytometric analysis.

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 0.5 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488-561 nm; **Emission:** 578 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, eBioscience™



CD3e Antibody (12-0031-82) in Flow

Staining of C57Bl/6 splenocytes with 0.25 µg of Armenian Hamster IgG Isotype Control PE (Product # 12-4888-81) (blue histogram) or 0.25 µg of Anti-Mouse CD3e PE (purple histogram). Total viable cells were used for analysis.

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

Flow Cytometry (138)

Frontiers in immunology

Tpl2 Protects Against Fulminant Hepatitis Through Mobilization of Myeloid-Derived Suppressor Cells.

"Published figure using CD3e monoclonal antibody (Product # 12-0031-82) 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

Frontiers in immunology

Glutaraldehyde Cross-linking of HIV-1 Env Trimers Skews the Antibody Subclass Response in Mice.

"12-0031 was used in Flow cytometry/Cell sorting to investigate if glutaraldehyde fixation affects other aspects of the soluble HIV-1 envelope glycoprotein-specific immune response."

Authors: Soldemo M,Ådori M,Stark JM,Feng Y,Tran K,Wilson R,Yang L,Guenaga J,Wyatt RT,Karlsson Hedestam GB

Species
Mouse

Dilution
Not Cited

Year
2019

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

Immunofluorescence (1)

Infection and immunity

Immunization with apoptotic phagocytes containing Histoplasma capsulatum activates functional CD8(+) T cells to protect against histoplasmosis.

"12-0031 was used in Immunofluorescence on frozen tissues to investigate the effect of immunisation with apoptotic phagocytes containing heat-killed Histoplasma, showing that it activates functional CD8(+) T cells to protect against histoplasmosis."

Authors: Hsieh SH,Lin JS,Huang JH,Wu SY,Chu CL,Kung JT,Wu-Hsieh BA

Species
Mouse

Dilution
Not Cited

Year
2011

Immunohistochemistry (Frozen) (3)

Infection and immunity

Immunization with apoptotic phagocytes containing Histoplasma capsulatum activates functional CD8(+) T cells to protect against histoplasmosis.

"12-0031 was used in Immunofluorescence on frozen tissues to investigate the effect of immunisation with apoptotic phagocytes containing heat-killed Histoplasma, showing that it activates functional CD8(+) T cells to protect against histoplasmosis."

Authors: Hsieh SH,Lin JS,Huang JH,Wu SY,Chu CL,Kung JT,Wu-Hsieh BA

Species
Mouse

Dilution
Not Cited

Year
2011

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

More applications with references on thermofisher.com

FN (1)

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