

CD3e Monoclonal Antibody (145-2C11), Biotin, 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), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	145-2C11
Conjugate	Biotin
Form	Liquid
Concentration	0.5 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_466319

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	10 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	3 Publications
Immunocytochemistry (ICC/IF)	-	5 Publications
Flow Cytometry (Flow)	0.5 µg/test	119 Publications
Immunoprecipitation (IP)	-	1 Publication
Neutralization (Neu)	-	1 Publication
Functional Assay (FN)	-	4 Publications
T-Cell Activation (TCA)	-	5 Publications
Affinity Purification (AP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	6 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-

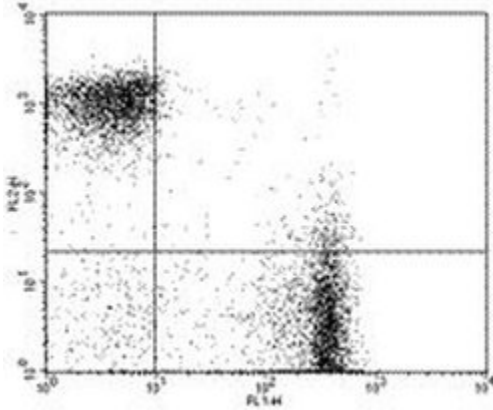
2C11 to TCR initiates the intracellular biochemical pathway resulting in cellular activation, proliferation, and apoptosis depending on specific conditions utilized. 145-2C11 is commonly used as a phenotypic marker for mouse T cells.

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.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD3e Antibody (13-0031-82) in Flow

Staining of BALB/c splenocytes with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and Anti-Mouse CD3e Biotin followed by Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis. Quadrants were set based on the autofluorescence sample.

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

Western Blot (1)

Nature communications

Rabphilin 3A retains NMDA receptors at synaptic sites through interaction with GluN2A/PSD-95 complex.

"Published figure using CD3e monoclonal antibody (Product # 13-0031-82) in Immunofluorescence"

Authors: Stanic J, Carta M, Eberini I, Pelucchi S, Marcello E, Genazzani AA, Racca C, Mülle C, Di Luca M, Gardoni F

Species
Not Applicable

Dilution
Not Cited

Year
2015

Immunohistochemistry (10)

Frontiers in immunology

Optimization of Organotypic Cultures of Mouse Spleen for Staining and Functional Assays.

"Published figure using CD3e monoclonal antibody (Product # 13-0031-82) in Immunocytochemistry"

Authors: Finetti F, Capitani N, Manganaro N, Tatangelo V, Libonati F, Panattoni G, Calaresu I, Ballerini L, Baldari CT, Patrussi L

Species
Not Applicable

Dilution
Not Cited

Year
2021

Nature communications

Age-specific biological and molecular profiling distinguishes paediatric from adult acute myeloid leukaemias.

"Published figure using CD3e monoclonal antibody (Product # 13-0031-82) in Flow Cytometry"

Authors: Chaudhury S, O'Connor C, Cañete A, Bittencourt-Silvestre J, Sarrou E, Prendergast Á, Choi J, Johnston P, Wells CA, Gibson B, Keeshan K

Species
Not Applicable

Dilution
Not Cited

Year
2018

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

Immunohistochemistry (Frozen) (3)

Cytotechnology

Orally administered Bifidobacterium triggers immune responses following capture by CD11c(+) cells in Peyer's patches and cecal patches.

"13-0031 was used in Immunofluorescence on frozen tissues to investigate the immunomodulatory mechanisms of Bifidobacterium pseudocatenulatum."

Authors: Hiramatsu Y, Hosono A, Konno T, Nakanishi Y, Muto M, Suyama A, Hachimura S, Sato R, Takahashi K, Kaminogawa S

Species
Mouse

Dilution
Not Cited

Year
2011

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More applications with references on thermofisher.com

ICC/IF (5)

Flow (119)

IP (1)

Neu (1)

FN (4)

TCA (5)

AP (1)

Misc (6)

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