

CD3e Monoclonal Antibody (145-2C11), Biotin, 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), 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
Flow Cytometry (Flow)	0.5 µg/test	83 Publications
Affinity Purification (AP)	-	1 Publication
Functional Assay (FN)	-	4 Publications
Immunofluorescence (IF)	-	8 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	3 Publications
Immunohistochemistry (IHC)	-	4 Publications
Immunoprecipitation (IP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	6 Publications
Neutralization (Neu)	-	1 Publication
T-Cell Activation (TCA)	-	4 Publications
Western Blot (WB)	-	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-

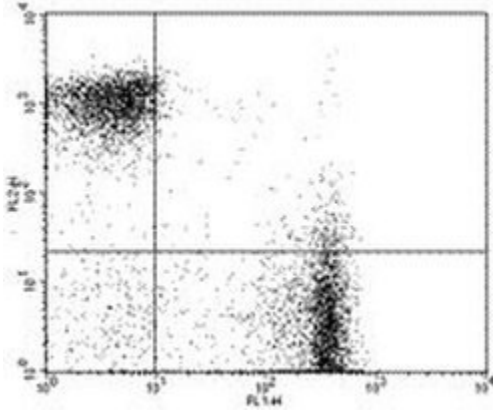
2C11 to TCR initiates the intracellular biochemical pathway resulting in cellular activation, proliferation, and apoptosis depending on specific conditions utilized. 145-2C11 is commonly used as a phenotypic marker for mouse T cells.

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 0.5 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)

Flow Cytometry (83)

eLife

A stochastic epigenetic switch controls the dynamics of T-cell lineage commitment.

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

Authors: Ng KK, Yui MA, Mehta A, Siu S, Irwin B, Pease S, Hirose S, Elowitz MB, Rothenberg EV, Kueh HY

Species
Mouse

Dilution
1:100

Year
2018

Scientific reports

ADAMTS1 protease is required for a balanced immune cell repertoire and tumour inflammatory response.

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

Authors: Rodríguez-Baena FJ, Redondo-García S, Peris-Torres C, Martino-Echarri E, Fernández-Rodríguez R, Plaza-Calonge MDC, Anderson P, Rodríguez-Manzanares JC

Species
Not Applicable

Dilution
Not Cited

Year
2018

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

Immunofluorescence (8)

Neoplasia (New York, N.Y.)

Targeting Liver Cancer and Associated Pathologies in Mice with a Mitochondrial VDAC1-Based Peptide.

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

Authors: Pittala S, Krelín Y, Shoshan-Barmatz V

Species
Not Applicable

Dilution
Not Cited

Year
2018

Nature communications

Extrafollicular CD4⁺ T-B interactions are sufficient for inducing autoimmune-like chronic graft-versus-host disease.

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

Authors: Deng R, Hurtz C, Song Q, Yue C, Xiao G, Yu H, Wu X, Muschen M, Forman S, Martin PJ, Zeng D

Species
Mouse

Dilution
Not Cited

Year
2017

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

More applications with references on thermofisher.com

TCA (4) Neu (1) IHC (4) IP (1) WB (1) Misc (6) AP (1) FN (4) IHC (F) (3)

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