

# CD3e Monoclonal Antibody (145-2C11), eFluor 450, 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), eFluor 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	145-2C11
Conjugate	eFluor® 450
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_10735092

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	69 Publications
Functional Assay (FN)	-	1 Publication
Immunofluorescence (IF)	-	7 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunoprecipitation (IP)	-	1 Publication
T-Cell Activation (TCA)	-	4 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:** This 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 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

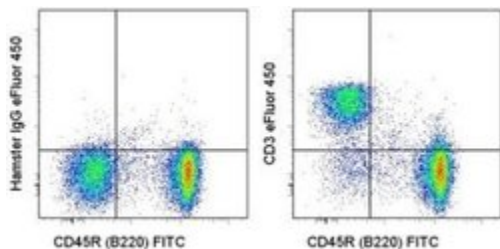
of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2  $\mu$ m post-manufacturing filtered.

## Product Images For CD3e Monoclonal Antibody (145-2C11), eFluor 450, eBioscience™



### CD3e Antibody (48-0031-82) in Flow

Staining of C57Bl/6 splenocytes with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.5  $\mu$ g of Armenian Hamster IgG Isotype Control eFluor® 450 (Product # 48-4888-82) (left) or 0.5  $\mu$ g of Anti-Mouse CD3e eFluor® 450 (right). Total viable cells were used for analysis.

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

## Flow Cytometry (69)

Frontiers in immunology

### Tp12 Protects Against Fulminant Hepatitis Through Mobilization of Myeloid-Derived Suppressor Cells.

"Published figure using CD3e monoclonal antibody (Product # 48-0031-82) 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

Oncoimmunology

### The immunocytokine L19-IL2: An interplay between radiotherapy and long-lasting systemic anti-tumour immune responses.

"48-0031 was used in Flow cytometry/Cell sorting to show that radiotherapy and L19-IL2 can activate a curative abscopal effect, with a long-lasting immunological memory."

Authors: Rekers NH,Olivo Pimentel V,Yaromina A,Lieuwes NG,Biemans R,Zegers CML,Germeraad WTV, Van Limbergen EJ,Neri D,Dubois LJ,Lambin P

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2020

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

## Immunofluorescence (7)

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 # 48-0031-82) in Immunofluorescence"

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

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

Nature communications

### Extrafollicular CD4<sup>+</sup> T-B interactions are sufficient for inducing autoimmune-like chronic graft-versus-host disease.

"Published figure using CD3e monoclonal antibody (Product # 48-0031-82) 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)

IHC (3)

IP (1)

IHC (F) (2)

FN (1)

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