

CD3e Monoclonal Antibody (145-2C11), Biotin, Functional Grade, eBioscience™

Product Details

Size	500 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Armenian hamster / IgG
Class	Monoclonal
Type	Antibody
Clone	145-2C11
Conjugate	Biotin , Functional Grade
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_469747

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-Dependent	1 Publication
Immunohistochemistry (IHC)	-	8 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	1 Publication
Immunocytochemistry (ICC/IF)	-	5 Publications
Flow Cytometry (Flow)	0.5 µg/test	64 Publications
Immunoprecipitation (IP)	Assay-Dependent	1 Publication
Functional Assay (FN)	Assay-Dependent	-
T-Cell Activation (TCA)	-	5 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, immunoprecipitation,

immunoblotting (WB), and immunohistochemical staining of frozen tissue sections. It has also been reported for use in cell activation and cell depletion. Please visit the best Protocols webpage to view a protocol for in vitro T-cell activation.

Applications Tested: This 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.

Endotoxin: Less than 0.05 ng/ug cytokine as determined by the LAL assay.

Storage and handling: Use in a sterile environment.

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 # 36-0031-85) 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 (8)

Frontiers in immunology

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

"Published figure using CD3e monoclonal antibody (Product # 36-0031-85) 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 # 36-0031-85) 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 (Paraffin) (1)

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 # 36-0031-85) in Immunofluorescence"

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

Species
Mouse

Dilution
1:300

Year
2018

More applications with references on thermofisher.com

IHC (F) (1)

ICC/IF (5)

Flow (64)

IP (1)

TCA (5)

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