

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	2 Publications
Immunohistochemistry (IHC)	-	14 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	92 Publications
Immunoprecipitation (IP)	Assay-Dependent	1 Publication
Functional Assay (FN)	Assay-Dependent	-
T-Cell Activation (TCA)	-	5 Publications
Miscellaneous PubMed (Misc)	-	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: 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 10^5 to 10^8 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/µg antibody as determined by the LAL assay.

Storage and handling: Use in a sterile environment.

122 References

Western Blot (2)

<p>Journal of the American Heart Association</p> <p>K_{Ca}3.1 Channels Promote Cardiac Fibrosis Through Mediating Inflammation and Differentiation of Monocytes Into Myofibroblasts in Angiotensin II -Treated Rats.</p> <p>"Published figure using CD3e monoclonal antibody (Product # 36-0031-85) in Western Blot"</p> <p>Authors: She G, Ren YJ, Wang Y, Hou MC, Wang HF, Gou W, Lai BC, Lei T, Du XJ, Deng XL</p>	<p>Year</p> <p>2019</p>
<p>Nature communications</p> <p>Rabphilin 3A retains NMDA receptors at synaptic sites through interaction with GluN2A/PSD-95 complex.</p> <p>"Published figure using CD3e monoclonal antibody (Product # 36-0031-85) in Western Blot"</p> <p>Authors: Stanic J, Carta M, Eberini I, Pelucchi S, Marcello E, Genazzani AA, Racca C, Mülle C, Di Luca M, Gardoni F</p>	<p>Year</p> <p>2015</p>

Immunohistochemistry (14)

<p>Frontiers in pharmacology</p> <p>Pomegranate Peel Extract Decreases Plaque Necrosis and Advanced Atherosclerosis Progression in Apoe Mice.</p> <p>"Published figure using CD3e monoclonal antibody (Product # 36-0031-85) in Immunohistochemistry"</p> <p>Authors: Manickam V, Dhawan UK, Singh D, Gupta M, Subramanian M</p>	<p>Year</p> <p>2022</p>
<p>Cell reports</p> <p>Btla signaling in conventional and regulatory lymphocytes coordinately tempers humoral immunity in the intestinal mucosa.</p> <p>"Published figure using CD3e monoclonal antibody (Product # 36-0031-85) in Immunohistochemistry"</p> <p>Authors: Stienne C, Virgen-Slane R, Elmén L, Veny M, Huang S, Nguyen J, Chappell E, Balmert MO, Shui JW, Hurchla MA, Kronenberg M, Peterson SN, Murphy KM, Ware CF, Šedý JR</p>	<p>Year</p> <p>2022</p>

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- Misc (1)

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