

Datasheet for ABIN6961429 **anti-CD3 epsilon antibody**



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Overview

Quantity:	1 mg
Target:	CD3 epsilon (CD3E)
Reactivity:	Mouse
Host:	Armenian Hamster
Clonality:	Monoclonal
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)), Functional Studies (Func)

Product Details

Clone:	145-2C11
Isotype:	IgG
Purification:	This monoclonal antibody preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready™ (IVR) products, each preparation is also evaluated for endotoxin levels using the LAL assay. It is recommended to store the product undiluted at 4°C. Do not freeze.
Endotoxin Level:	Low endotoxin: < 0.01 EU/ug

Target Details

Target:	CD3 epsilon (CD3E)
Alternative Name:	CD3e (CD3E Products)
Background:	The 145-2C11 antibody is specific for mouse CD3e, also known as CD3 epsilon, a 20 kDa

Target Details

subunit of the T cell receptor complex, along with CD3 gamma and CD3 delta. These integral membrane protein chains assemble with additional chains of the T cell receptor (TCR), as well as CD3 zeta chain, to form the T cell receptor - CD3 complex. Together with co-receptors CD4 or CD8, the complex serves to recognize antigens bound to MHC molecules on antigen-presenting cells. Such interactions promote T cell receptor signaling (T cell activation) and can result in a number of cellular responses including proliferation, differentiation, production of cytokines or activation-induced cell death. CD3 is differentially expressed during thymocyte-to-T cell development and on all mature T cells. The 145-2C11 antibody is a widely used phenotypic marker for mouse T cells. In addition, binding of 145-2C11 antibody to CD3e can induce cell activation. A recent publication of the crystal structure of a murine CD3e-mitogenic antibody complex provides further insight into the action of commonly used agonist antibodies (Fernandes, R.A. et al. 2012. J. Biol. Chem. 287: 13324-13335).

Gene ID:	12501
UniProt:	P22646
Pathways:	TCR Signaling , CXCR4-mediated Signaling Events , Ubiquitin Proteasome Pathway

Application Details

Application Notes:	This purified format is guaranteed to be >90 % pure as determined by SDS-PAGE analysis.
Comment:	2 mg/mL
Restrictions:	For Research Use only

Handling

Buffer:	10 mM NaH ₂ PO ₄ , 150 mM NaCl, pH 7.2
Preservative:	Azide free
Storage:	4 °C
Storage Comment:	2-8°C
Expiry Date:	12 months