

Datasheet for ABIN6657858
anti-CD3 epsilon antibody (PE)



[Go to Product page](#)

2 Images

Overview

Quantity:	100 µg
Target:	CD3 epsilon (CD3E)
Reactivity:	Mouse
Host:	Hamster
Clonality:	Monoclonal
Conjugate:	This CD3 epsilon antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	CD3e Phycoerythrin Antibody
Immunogen:	Anti-CD3 Antibody (Monoclonal) was produced by repeated immunizations with H-2Kb specific cytotoxic T lymphocyte clone BM10-37.
Clone:	145-2C11
Isotype:	IgG
Cross-Reactivity (Details):	Reactivity is observed against mouse CD3.
Purification:	Phycoerythrin conjugated CD3 Monoclonal Antibody was Protein G Purified from tissue culture supernatant and is directed against mouse CD3.
Sterility:	Sterile filtered
Labeling Ratio:	1-2

Target Details

Target:	CD3 epsilon (CD3E)
Alternative Name:	CD3e (CD3E Products)
Background:	Synonyms: T-cell surface glycoprotein CD3 epsilon chain, T-cell surface antigen T3/Leu-4 epsilon chain, CD3e Background: CD3 is a multi-subunit complex consisting of 4 different invariable membrane proteins, CD3E, CD3D, CD3G and CD3-omega. These CD3 proteins are expressed on the surface of T-cells and Thymocytes during thymocyte development. They are non-covalently associated with the TCR heterodimer and form the functional TCR-CD3 antigen receptor complex of the T-lymphocyte. CD3 expression is significant during Intrathymic T-lymphocyte maturation, TCR signaling and Thymocyte differentiation. Stimulation of TCR-CD3 complex results in activation of various protein tyrosine kinases including ZAP-70 affecting multiple cellular responses including T-cell proliferation, clonal expansion, induction of tolerance and apoptosis. Mutations in the sub-unit chains of CD3 have been associated with various immunodeficiency syndromes including SCID. Gene Name: Cd3e
Gene ID:	12501
NCBI Accession:	NP_031674
UniProt:	P22646
Pathways:	TCR Signaling , CXCR4-mediated Signaling Events , Ubiquitin Proteasome Pathway

Application Details

Application Notes:	Optional[Nutralization_Dilution]: 0.1-0.5 µg/10 ⁶ cells
Comment:	Anti-CD3 is tested for Flow Cytometry (Cell Surface). Researchers should determine optimal titers for applications that are not stated.
Restrictions:	For Research Use only

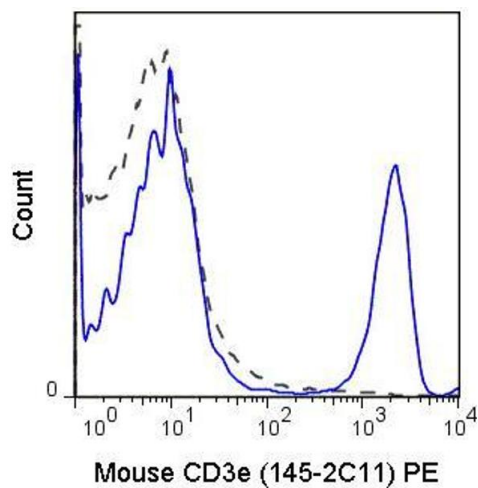
Handling

Format:	Liquid
Buffer:	Buffer: 0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 0.1 % Gelatin Preservative: 0.09 % (w/v) Sodium Azide

Handling

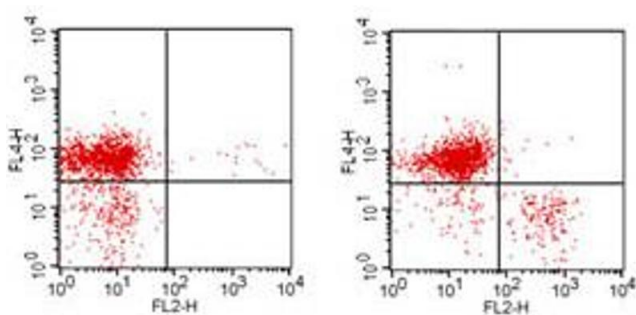
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store vial at 4° C prior to opening. Dilute only prior to immediate use. This product is stable at 4° C as an undiluted liquid. Use subdued lighting during handling and incubation of cells prior to analysis. Store reagent in the dark. DO NOT FREEZE.
Expiry Date:	6 months

Images



Flow Cytometry

Image 1. Flow Cytometry of Hamster anti-MOUSE CD3e antibody Phycoerythrin conjugated. Cells: 10⁶ BALB/c mouse splenocytes. Stimulation: none. Antibody: (GRAY) 1 µg PE Hamster IgG isotype control antibody; (BLUE) Phycoerythrin Anti-CD3 Hamster secondary antibody using 1 µg.



Flow Cytometry

Image 2. Flow Cytometry - Hamster anti-MOUSE CD3 PE Cell Surface Flow Cytometry of Hamster anti-MOUSE CD3 antibody Phycoerythrin conjugated. Cells: 10⁶ BALB/c mouse splenocytes. Stimulation: none. Antibody: (left) isotype control antibody; (right) Phycoerythrin Anti-CD3 Hamster secondary antibody using 1 µg. Also stained with Anti-CD19 APC conjugated Antibody.