

Datasheet for ABIN6657857
anti-CD3 epsilon antibody (FITC)



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3 Images

Overview

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

Product Details

Purpose:	CD3e Fluorescein 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:	Fluorescein conjugated CD3 Monoclonal Antibody was Protein G Purified from tissue culture supernatant and is directed against mouse CD3.
Sterility:	Sterile filtered
Labeling Ratio:	2-8

Target Details

Target:	CD3 epsilon (CD3E)
Alternative Name:	CD3e (CD3E Products)
Background:	<p>Synonyms: T-cell surface glycoprotein CD3 epsilon chain, T-cell surface antigen T3/Leu-4 epsilon chain, CD3e</p> <p>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.</p> <p>Gene Name: Cd3e</p>
Gene ID:	12501
NCBI Accession:	NP_031674
UniProt:	P22646
Pathways:	TCR Signaling , CXCR4-mediated Signaling Events , Ubiquitin Proteasome Pathway

Application Details

Application Notes:	<p>Flow_Cytometry_Dilution: 0.1-0.5 µg/10⁶ cells</p> <p>Other: Sufficient to run approximately 500 tests</p>
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

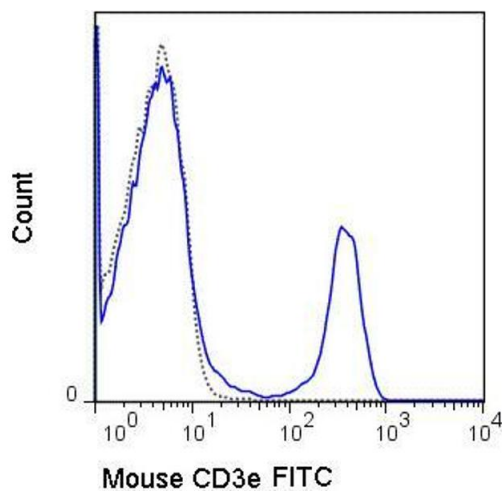
Handling

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

Handling

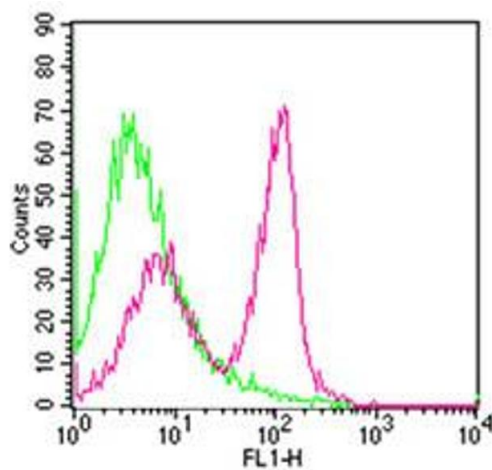
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. DO NOT FREEZE. This product is light sensitive.
Expiry Date:	6 months

Images



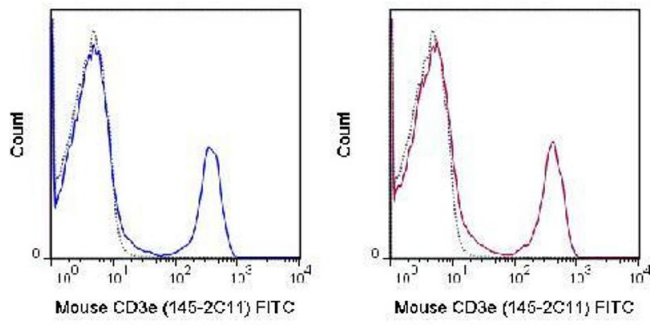
Flow Cytometry

Image 1. Flow Cytometry of Hamster anti-MOUSE CD3e antibody Fluorescein conjugated. Cells: 10^6 C57Bl/6 splenocytes. Stimulation: none. Antibody: (GRAY) 0.5 μ g FITC Hamster IgG isotype control antibody; (BLUE) Fluorescein Anti-CD3 Hamster secondary antibody using 0.5 μ g.



Flow Cytometry

Image 2. Flow Cytometry - Hamster anti-MOUSE CD3 FITC Cell Surface Flow Cytometry of Hamster anti-MOUSE CD3 antibody Fluorescein conjugated. Cells: 10^6 BALB/c mouse splenocytes. Stimulation: none. Antibody: (GREEN) isotype control antibody; (RED) Fluorescein Anti-CD3 Hamster secondary antibody using 0.25 μ g.



Flow Cytometry

Image 3. Flow Cytometry of Hamster anti-MOUSE CD3 antibody Fluorescein conjugated. Cells: 10^6 C57Bl/6 splenocytes. Stimulation: none. Antibody: (GRAY) FITC Hamster IgG isotype control antibody; (BLUE) 0.5 μ g Fluorescein Anti-CD3 Hamster secondary antibody, (RED) Fluorescein Anti-CD3 Hamster control antibody.