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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 200-B08-M69

CD3e Phycoerythrin Antibody

Overview

Description:	Anti-CD3 epsilon (ARMENIAN HAMSTER) Phycoerythrin Conjugated Monoclonal Antibody - 200-B08-M69
Item No.:	200-B08-M69
Size:	100 µg
Applications:	FC
Reactivity:	Mouse
Host Species:	Hamster Armenian

Product Details

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.
Synonyms:	T-cell surface glycoprotein CD3 epsilon chain, T-cell surface antigen T3/Leu-4 epsilon chain, CD3e
Host Species:	Hamster Armenian
Conjugate:	R-Phycoerythrin (RPE)
Clonality:	Monoclonal
Clone ID:	145-2C11
Format:	IgG
F/P Ratio:	1-2

Target Details

Gene Name:	Cd3e
Reactivity:	Mouse
Immunogen Type:	Other
Immunogen:	Anti-CD3 Antibody (Monoclonal) was produced by repeated immunizations with H-2Kb specific cytotoxic T lymphocyte clone BM10-37.
Purity/Specificity:	Phycoerythrin conjugated CD3 Monoclonal Antibody was Protein G Purified from tissue culture supernatant and is directed against mouse CD3. Reactivity is observed against mouse CD3. Cross reactivity with CD3 from other sources has not been tested.
Relevant Links:	• UniProtKB - P22646 • NCBI - NP_031674.1 • GeneID - 12501

Application Details

Tested Applications:	FC
Application Note:	Anti-CD3 is tested for Flow Cytometry (Cell Surface). Researchers should determine optimal titers for applications that are not stated.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	0.1-0.5 µg/10^6 cells

Formulation

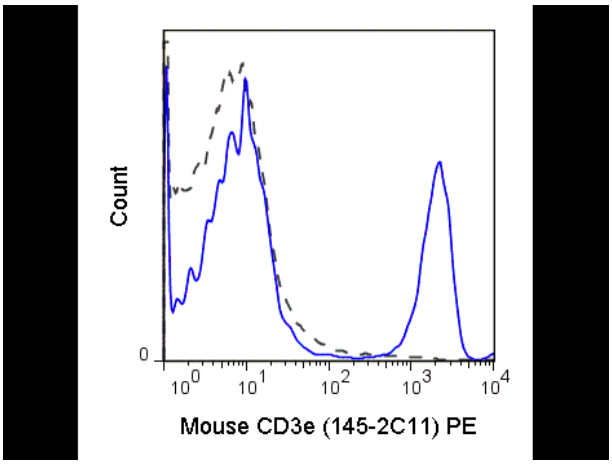
Physical State:	Liquid (sterile filtered)
Concentration:	0.2mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	0.1% Gelatin

Shipping & Handling

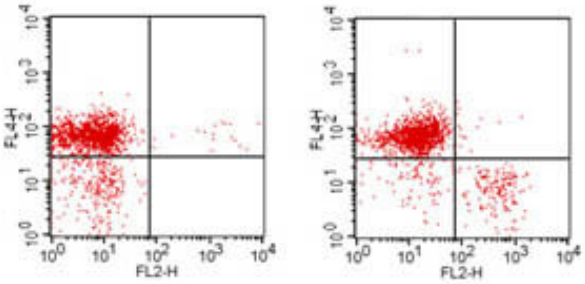
Shipping Condition:	Wet Ice

Storage Condition:	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.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



Flow Cytometry
Flow Cytometry of Hamster anti-MOUSE CD3e antibody Phycoerythrin conjugated. Cells: 10^6 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
Cell Surface Flow Cytometry of Hamster anti-MOUSE CD3 antibody Phycoerythrin conjugated. Cells: 10^6 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.

Disclaimer

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