

Datasheet for ABIN6655179

anti-CD3 epsilon antibody (PE)

2 Images



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Overview

Quantity:	500 µL
Target:	CD3 epsilon (CD3E)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD3 epsilon antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Purpose:	CD3 Phycoerythrin Antibody
Immunogen:	Anti-CD3 Antibody (Monoclonal) was produced by repeated immunizations with CD3 antigen.
Clone:	OKT3
Isotype:	IgG2a kappa
Cross-Reactivity (Details):	Reactivity is observed against human CD3 and chimpanzee.
Purification:	Phycoerythrin conjugated CD3 Monoclonal Antibody was Protein G Purified and is directed against human 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 (T3), a complex T cell marker, is known to associate noncovalently with the α/β or γ/δ heterodimer of the T cell antigen receptor (TCR) to form the most complex transmembrane (TM) receptor structures. Structurally, CD3 consists of four distinct membrane glycoprotein isoforms (CD3g, CD3e, CD3s and the zeta chain) to generate activation signals. CD3 is specially engaged in antigen recognition and is known to play an important role in mediating signals that are critical for T cell development in the thymus, proliferation, and induction of T cell-mediated immune responses against infectious agents and also in the differentiation of T cells into effector and memory populations. CD3 usually expresses in the cytoplasm of prothymocytes, and on the surface of about 95 % of thymocytes, but cytoplasmic CD3 is lost as the cells differentiate into medullary thymocytes. Apart from its role as an important marker in the classification of malignant lymphomas and lymphoid leukaemia, CD3 can also be useful for the identification of T cells in celiac disease, lymphocytic colitis and colorectal carcinomas associated with loss of a mismatch repair protein. CD3 indirectly plays an important role in immunomodulation whereas the anti-CD3 antibody may be used in in vitro Treg assays to generate effector T cells. Gene Name: CD3e
Gene ID:	916
NCBI Accession:	NP_000724
UniProt:	P07766
Pathways:	TCR Signaling , CXCR4-mediated Signaling Events , Ubiquitin Proteasome Pathway

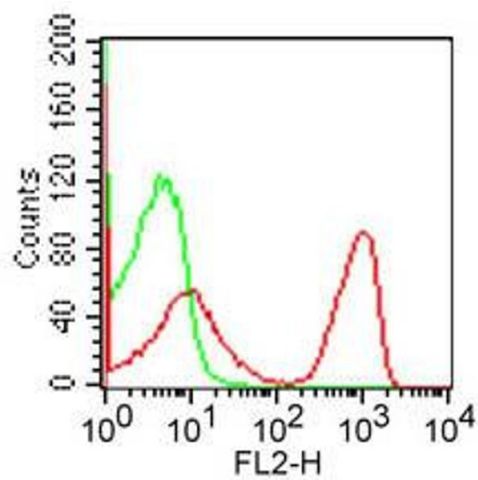
Application Details

Application Notes:	Optional[Neutralization_Dilution]: 10 μ L/1x10 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

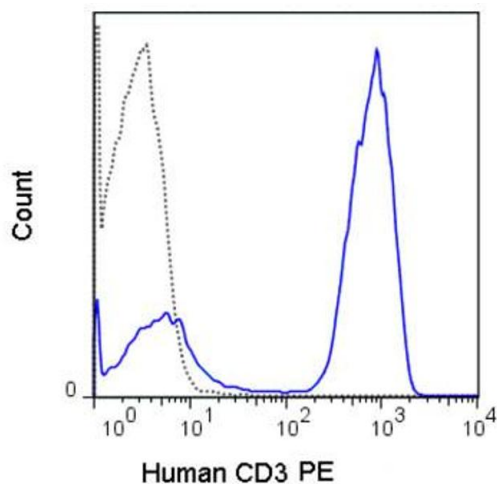
Format:	Liquid
Buffer:	Buffer: 0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 0.1 % Gelatin Preservative: 0.09 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained 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 - Mouse anti-HUMAN CD3 PE Cell Surface Flow Cytometry of Mouse anti-HUMAN CD3 antibody Phycoerythrin conjugated. Cells: 10⁶ human PBMC. Propidium iodide negative lymphocyte population gated for analysis. Stimulation: none. Antibody: (GREEN) isotype control antibody; (RED) Phycoerythrin Anti-CD3 mouse secondary antibody using 10 ul (0.1 ug).



Flow Cytometry

Image 2. Flow Cytometry - Mouse anti-HUMAN CD3 PE Flow Cytometry of Mouse anti-HUMAN CD3 antibody Phycoerythrin conjugated. Cells: 10⁶ Human peripheral blood lymphocytes. Stimulation: none. Antibody: (GRAY) 0.5 ug PE Mouse IgG2a isotype control; (BLUE) Phycoerythrin Anti-CD3 mouse secondary antibody using 5 ul (0.5 ug).