

Datasheet for ABIN6240810

anti-CD3 epsilon antibody (Activation Site) (APC)



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2 Images

Overview

Quantity:	100 µg
Target:	CD3 epsilon (CD3E)
Binding Specificity:	Activation Site
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD3 epsilon antibody is conjugated to APC
Application:	Intracellular Flow Cytometry (ICFC)

Product Details

Purpose:	Anti-CD3 epsilon (activation epitope) APC
Immunogen:	Purified human CD3 proteins isolated from thymus
Clone:	APA1-1
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody APA1/1 recognizes an activation-dependent intracellular epitope of CD3 epsilon. Exposure of the epitope precedes CD3 phosphorylation and recruitment and activation of ZAP70, which initiates the signaling cascade produced by T-cell activation. APA1/1 provides the earliest known marker for TCR-mediated T cell activation.
Cross-Reactivity (Details):	Human, Mouse
Purification:	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum

Product Details

conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD3 epsilon (CD3E)
Alternative Name:	CD3 epsilon (CD3E Products)
Background:	CD3 antigen, epsilon polypeptide, CD3 complex is crucial in transducing antigen-recognition signals into the cytoplasm of T cells and in regulating the cell surface expression of the TCR complex. T cell activation through the antigen receptor (TCR) involves the cytoplasmic tails of the CD3 subunits CD3 gamma, CD3 delta, CD3 epsilon and CD3 zeta. These CD3 subunits are structurally related members of the immunoglobulins super family encoded by closely linked genes on human chromosome 11. The CD3 components have long cytoplasmic tails that associate with cytoplasmic signal transduction molecules. This association is mediated at least in part by a double tyrosine-based motif present in a single copy in the CD3 subunits. CD3 may play a role in TCR-induced growth arrest, cell survival and proliferation., CD3 epsilon chain, T3E, IMD18
Gene ID:	916
UniProt:	P07766
Pathways:	TCR Signaling , CXCR4-mediated Signaling Events , Ubiquitin Proteasome Pathway

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-2 µg/mL. Intracellular staining.
Restrictions:	For Research Use only

Handling

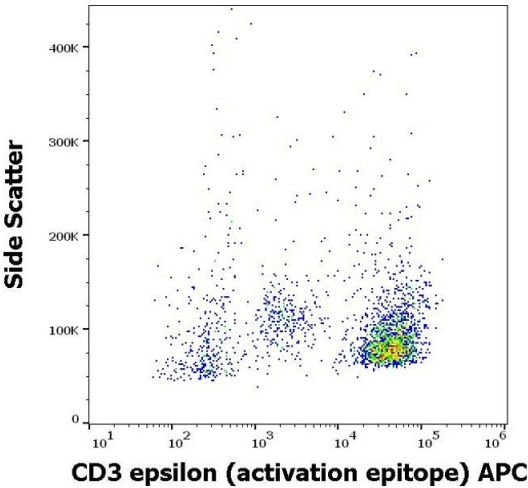
Concentration:	0.1 mg/mL
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum

conditions. The conjugate is purified by size-exclusion chromatography.

Storage: 4 °C

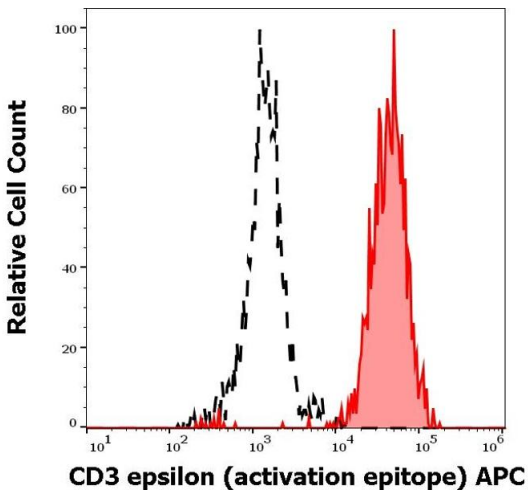
Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Images



Flow Cytometry

Image 1. Flow cytometry intracellular staining pattern of Jurkat cell suspension using anti-human CD3 activation epitope (APA1/1) APC antibody (concentration in sample 2 µg/mL).



Flow Cytometry

Image 2. Separation of Jurkat cells (red-filled) from SP2 cells (black-dashed) in flow cytometry analysis (intracellular staining) stained using anti-human CD3 activation epitope (APA1/1) APC antibody (concentration in sample 2 µg/mL).