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Datasheet for ABIN94058 anti-CD3 antibody

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Overview

Quantity:	0.1 mg
Target:	CD3
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD3 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Cytometry by Time of Flight (CyTOF)

Product Details

Immunogen:	Human thymocytes and T lymphocytes.
Clone:	MEM-57
lsotype:	lgG2a kappa
Specificity:	The antibody MEM-57 reacts with an extracellular epitope on gamma-epsilon and delta-epsilon dimers of human CD3 complex, a part of a bigger multisubunit T cell receptor complex (CD3/TCR) expressed on peripheral blood T lymphocytes and mature thymocytes.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

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Target Details

Target:	CD3
Alternative Name:	CD3 (CD3 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. The CD3 antigen is
	present on 68-82 % of normal peripheral blood lymphocytes, 65-85 % of thymocytes and
	Purkynje cells in the cerebellum. It is never expressed on B or NK cells. Decreased percentages
	of T lymphocytes may be observed in some autoimmune diseases.,CD3E, T3E, TCRE
Gene ID:	916
UniProt:	P07766
Pathways:	TCR Signaling, Ubiquitin Proteasome Pathway
Application Details	
Application Notes:	Immunoprecipitation: The antibody MEM-57 immunoprecipitates from a detergent lysate of
	surface-radioiodinated T cells a strong zone of about 22 kDa and a weak 28- kDa zone, which is
	typical pattern yielded by a reference antibody Leu-4 (SK7).
	Flow cytometry: Recommended dilution: 2 - 5 μ g/mL, positive control: peripheral blood
	lymphocytes, JURKAT human leukemia T cell line.
Restrictions:	For Research Use only
Handling	
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
	Sodium azide
Preservative:	
Preservative: Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

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Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in: Majer, Vlaskova, Krol, Kalina, Kubanek, Stolnaya, Dvorakova, Elleder, Sikora: "Danon disease: a focus on processing of the novel LAMP2 mutation and comments on the beneficial use of peripheral white blood cells in the diagnosis of LAMP2 deficiency." in: **Gene**, Vol. 498, Issue 2, pp. 183-95, (2012) (PubMed).

> Mookerjee-Basu, Vantourout, Martinez, Perret, Collet, Puerigaud, Peyrottes, Champagne: "F1-Adenosine Triphosphatase Displays Properties Characteristic of an Antigen Presentation Molecule for V{gamma}9V{delta}2 T Cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, (2010) (PubMed).

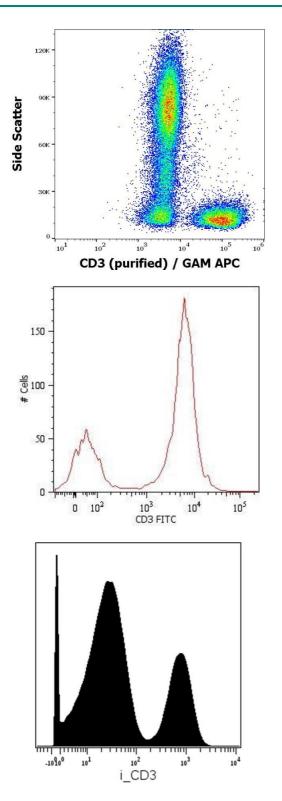
> Drbal, Moertelmaier, Holzhauser, Muhammad, Fuertbauer, Howorka, Hinterberger, Stockinger, Schütz: "Single-molecule microscopy reveals heterogeneous dynamics of lipid raft components upon TCR engagement." in: **International immunology**, Vol. 19, Issue 5, pp. 675-84, (2007) (PubMed).

> Brdicková, Brdicka, Angelisová, Horváth, Spicka, Hilgert, Paces, Simeoni, Kliche, Merten, Schraven, Horejsí: "LIME: a new membrane Raft-associated adaptor protein involved in CD4 and CD8 coreceptor signaling." in: **The Journal of experimental medicine**, Vol. 198, Issue 10, pp. 1453-62, (2003) (PubMed).

> Panyi, Bagdány, Bodnár, Vámosi, Szentesi, Jenei, Mátyus, Varga, Waldmann, Gáspar, Damjanovich: "Colocalization and nonrandom distribution of Kv1.3 potassium channels and CD3 molecules in the plasma membrane of human T lymphocytes." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 100, Issue 5, pp. 2592-7, (2003) (PubMed).

There are more publications referencing this product on: Product page

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Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD3 (MEM-57) purified antibody (concentration in sample 0,33 μ g/mL) GAM APC.

Flow Cytometry

Image 2. Surface staining of human peripheral blood cells with anti-human CD3 (MEM-57) FITC. Cells in the lymphocyte gate were used for analysis.

Cytometry by Time of Flight

Image 3. Mass cytometry analysis (surface staining) of PBMC after FicoII-Paque separation with anti-human CD3 (MEM-57) Dy161. Gated on singlets.

Please check the product details page for more images. Overall 4 images are available for ABIN94058.

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