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Datasheet for ABIN94060 anti-CD3 antibody (Biotin)

4 Images

8 Publications



Overview

Quantity:	0.1 mg
Target:	CD3
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD3 antibody is conjugated to Biotin
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP)

Product Details

Immunogen:	Human thymocytes and T lymphocytes.
Clone:	MEM-57
lsotype:	IgG2a 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 antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.
Target Details	

Target: CD3 Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn

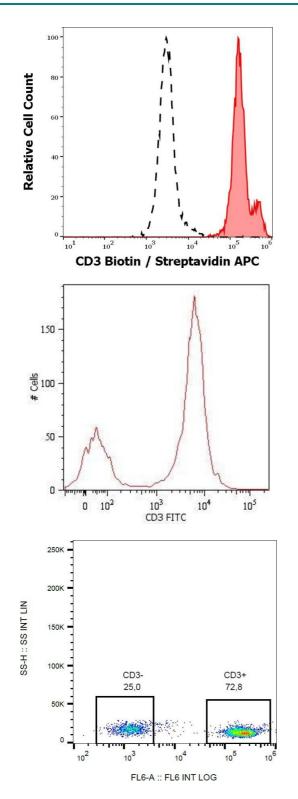
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Alternative Name:	CD3 (CD3 Products)
Background:	CD3 antigen, epsilon polypeptide,CD3 complex is crucial in transducing antigen-recognition
	signals into the cytoplasm of T cells and in regulating the cell surface expression of the TCR
	complex. T 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:	Flow cytometry: Recommended dilution: 2 - 5 μ g/mL, positive control: peripheral blood
	lymphocytes, JURKAT human leukemia T cell line.
Comment:	The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent
	is free of unconjugated biotin.
Restrictions:	For Research Use only
Handling	
Concentration:	1 mg/mL
Buffer:	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:	Do not freeze.

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Handling	
	Avoid prolonged exposure to light.
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).
	Drbal, Moertelmaier, Holzhauser, Muhammad, Fuertbauer, Howorka, Hinterberger, Stockinger,
	Schütz: "Single-molecule microscopy reveals heterogeneous dynamics of lipid raft component
	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 an
	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).
	Dave, Cao, Browne, Alarcon, Fernandez-Miguel, Lafaille, de la Hera, Tonegawa, Kappes: "CD3
	delta deficiency arrests development of the alpha beta but not the gamma delta T cell lineage.
	in: The EMBO journal , Vol. 16, Issue 6, pp. 1360-70, (1997) (PubMed).
	There are more publications referencing this product on: Product page

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Flow Cytometry

Image 1. Separation of human CD3 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD3 (MEM-57) biotin antibody (concentration in sample 4μ g/mL) streptavidin 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.

Flow Cytometry

Image 3. Flow cytometry analysis (surface staining) of CD3 in human peripheral blood with anti-CD3 (MEM-57) biotin, streptavidin-APC.

Please check the product details page for more images. Overall 4 images are available for ABIN94060.

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