antibodies - online.com







anti-CD3 antibody (PE)





Publications



_					
U	V	er	VI	е	W

Quantity:	100 tests
Target:	CD3
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD3 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Human thymocytes and T lymphocytes.
Clone:	MEM-57
Isotype:	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 R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

et:

Target Details

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: The reagent is designed for analysis of human blood cells using 20 μL reagent	
	/ 100 μL of whole blood or 10^6 cells in a suspension. The content of a vial (2 ml) is sufficient for	
	100 tests.	
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The	
	conjugate is purified by size-exclusion chromatography and adjusted for direct use. No	
	reconstitution is necessary.	
Restrictions:	For Research Use only	
Handling		
Reconstitution:	No reconstitution is necessary.	
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide	
Preservative:	Sodium azide	
	This was dust contains and diverse and as a DOLCONOLIC AND LIAZADDOLIC CUROTANIOS which	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which	

Handling

Handling Advice:	Do not freeze. Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. 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).

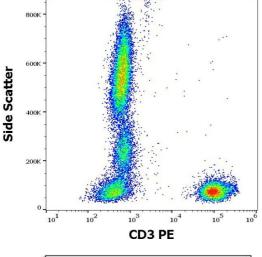
Lesport, Baudhuin, Sousa, Lemaoult, Zamborlini, Rouas-Freiss, Carosella, Favier: "Inhibition of human Vγ9Vδ2 T-cell antitumoral activity through HLA-G: implications for immunotherapy of cancer." in: **Cellular and molecular life sciences : CMLS**, (2011) (PubMed).

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).

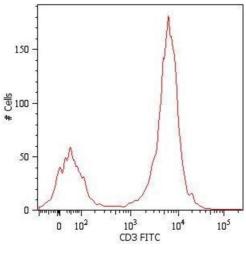
Panyi, Bagdány, Bodnár, Vámosi, Szentesi, Jenei, Mátyus, Varga, Waldmann, Gáspar, Damjanovich: "Colocalization and nonrandom distribution of Kv1.3 potassium channels and CD3 molecules in the plasma membrane of human T lymphocytes." in: **Proceedings of the National Academy of Sciences of the United States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

There are more publications referencing this product on: Product page



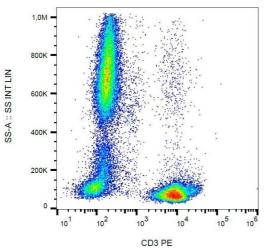
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD3 (MEM-57) PE antibody (20 μ L reagent / 100 μ L of peripheral whole blood).



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. Surface staining of CD3 in human peripheral blood with anti-CD3 (MEM-57) PE.

Please check the product details page for more images. Overall 4 images are available for ABIN94062.