

Datasheet for ABIN94235
anti-CD8 antibody (PE)[Go to Product page](#)

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Overview

Quantity:	100 tests
Target:	CD8
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD8 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Crude thymus membrane fraction.
Clone:	MEM-31
Isotype:	IgG2a
Specificity:	<p>The antibody MEM-31 recognizes a conformationally-dependent extracellular epitope of CD8, a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell-cell interactions within the immune system. CD8 is a disulfide-linked dimer and exists as a CD8 alpha/alpha homodimer or CD8 alpha/beta heterodimer (each monomer approx. 32-34 kDa).</p> <p>The antibody does not react with formaldehyde-fixed cells, negative in Western blotting application.</p>
Cross-Reactivity (Details):	Human
Purification:	<p>Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions.</p> <p>Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.</p>

Target Details

Target:	CD8
Alternative Name:	CD8 (CD8 Products)
Background:	<p>The CD8 T cell coreceptor (monomer approx. 32-34 kDa) is expressed as alpha/beta heterodimer on majority of MHC I-restricted conventional T cells and thymocytes and as alpha/alpha homodimer on subsets of memory T cells, intraepithelial lymphocytes, NK cells and dendritic cells. Regulation of CD8 beta level on T cell surface seems to be an important mechanism to control their effector function. Assembly of CD8 alpha-beta but not alpha-alpha dimers is connected with formation or localization to the lipid rafts. Recruiting triggered TCR complexes to these membrane microdomains as well as affinity of TCR to MHC I is modulated by CD8, thereby affecting the functional diversity of the TCR signaling.,p32, LEU2</p>

Application Details

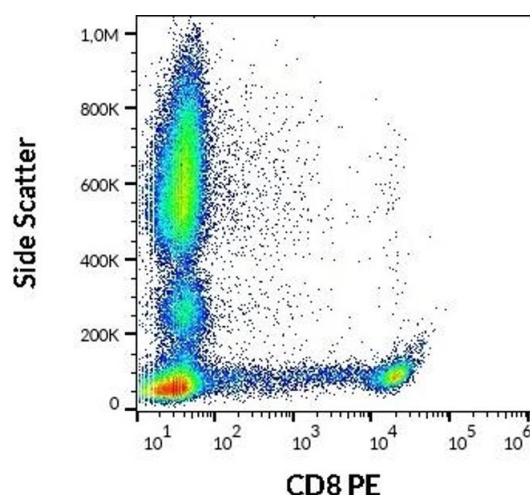
Application Notes:	<p>Flow cytometry: The reagent is designed for analysis of human blood cells using 20 µL reagent / 100 µL of whole blood or 10⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.</p>
Comment:	<p>The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.</p>
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
Precaution of Use:	<p>This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.</p>
Handling Advice:	<p>Do not freeze.</p> <p>Avoid prolonged exposure to light.</p>
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

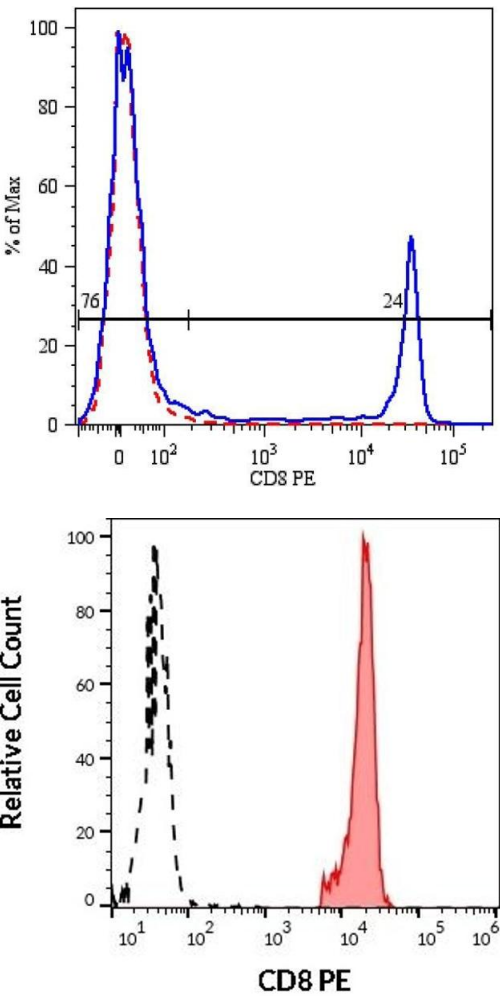
- Product cited in: Linnebacher, Wienck, Boeck, Klar: "Identification of an MSI-H tumor-specific cytotoxic T cell epitope generated by the (-1) frame of U79260(FTO)." in: **Journal of biomedicine & biotechnology**, Vol. 2010, pp. 841451, (2010) ([PubMed](#)).
- Drbal, Moertelmaier, Holzhauser, Muhammad, 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](#)).
- Estefanía, Flores, Gómez-Lozano, Aguilar, López-Botet, Vilches: "Human KIR2DL5 is an inhibitory receptor expressed on the surface of NK and T lymphocyte subsets." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 178, Issue 7, pp. 4402-10, (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](#)).

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD8 (MEM-31) PE antibody (20 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 2. Surface staining of human peripheral blood lymphocytes using anti-human CD8

Flow Cytometry

Image 3. Separation of human CD8 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD8 (MEM-31) PE antibody (20 µL reagent / 100 µL of peripheral whole blood).