

Datasheet for ABIN94232

anti-CD8 antibody

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Overview

Quantity:	0.1 mg
Target:	CD8
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD8 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Cytometry by Time of Flight (CyTOF)

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:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	CD8
Alternative Name:	CD8 (CD8 Products)
Background:	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

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1 µg/mL.
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.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

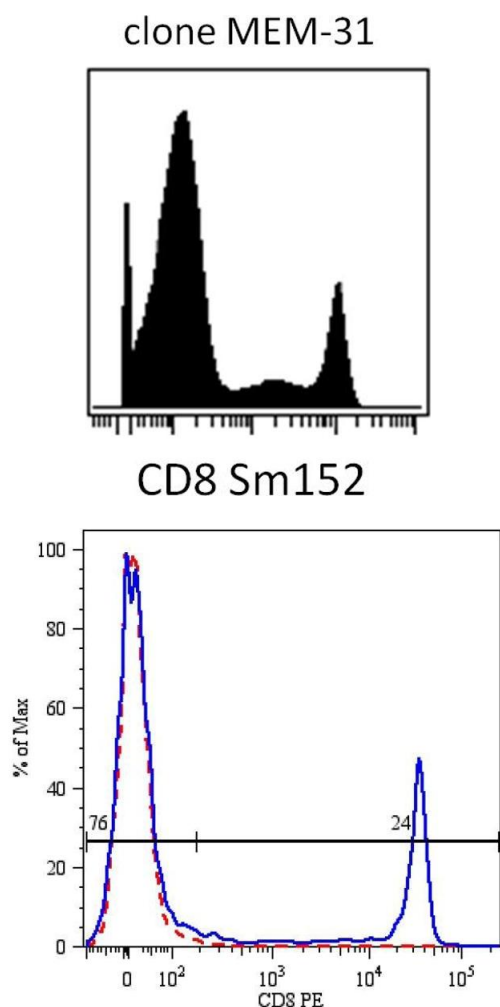
Product cited in:	Linnebacher, Wienck, Boeck, Klar: "Identification of an MSI-H tumor-specific cytotoxic T cell epitope generated by the (-1) frame of U79260(FTO)." in: Journal of biomedicine & biotechnology , Vol. 2010, pp. 841451, (2010) (PubMed).
	Drbal, Moertelmaier, Holzhauser, Muhammad, Fuertbauer, 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



Cytometry by Time of Flight

Image 1. Mass cytometry (surface staining) of PBMC after Ficoll-Paque separation with anti-human CD8 (MEM-31) Sm152. Gated on singlets.

Flow Cytometry

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