

## anti-human CD8 no azide

monoclonal antibody MEM-31 to human CD8

Cat-No: **21270080**

100 µg 100 µl

**Clone:** MEM-31 (mouse)

**Specificity:** The antibody MEM-31 recognizes a conformationally-dependent 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 CD8a homodimer or CD8a/b heterodimer (each monomer approx. 32-34 kDa). The antibody does not react with formaldehyde-fixed cells; negative in Western Blotting application.

HLDA III; WS Code T 575

**Isotype subclass:** Mouse IgG2a

**Form:** Store at 4 °C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS (sterile / pH 7.2)

**Expiration date:** The reagent is stable until the expiry date stated on the vial label

**Storage conditions:** Store at 4 °C. Avoid prolonged exposure to light.

**Application:** functional application

**References:**

Horejsi V. et al., Folia Biol. (Praha) 32, 12 (1986).

Leucocyte Typing III. McMichael A. J. et al (Eds.), Oxford University Press (1987).

**Background:** The CD8 T cell coreceptor (monomer approx. 32-34 kDa) is expressed as ab heterodimer on majority of MHC I-restricted conventional T cells and thymocytes and as aa homodimer on subsets of memory T cells, intraepithelial lymphocytes, NK cells and dendritic cells. Regulation of CD8b level on T cell surface seems to be an important mechanism to control their effector function. Assembly of CD8 a-b but not a-a 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.

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Gladiolenweg 2; 26169 Friesoythe; Germany

phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, [info@immunotools.com](mailto:info@immunotools.com)

[www.immunotools.com](http://www.immunotools.com)