



11-349-C100

Monoclonal Antibody to CD8 Purified Antibody (0.1 mg)

Clone: MEM-87

Isotype: Mouse IgG1

Specificity: The antibody MEM-87 recognizes 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).

Regulatory Status: RUO

Immunogen: Leukocytes of a patient suffering from LGL Type Leukemia.

Species Reactivity: Human

Application: Immunoprecipitation

Application note: Excellent for immunoisolation of CD8 positive T cells.

Flow Cytometry

Recommended dilution:2 µg/ml

Purity: > 95% (by SDS-PAGE)

Purification: Purified by protein-A affinity chromatography

Concentration: 1 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial

label.

Expiration: See vial label

Lot Number: See vial label

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.



PRODUCT DATA SHEET

References:

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*van den Berg HA, Wooldridge L, Laugel B, Sewell AK: Coreceptor CD8-driven modulation of T cell antigen receptor specificity. J Theor Biol. 2007 Nov 21;249(2):395-408.

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