

TECHNICAL DATA SHEET

CyFlow™ CD8 Purified Anti-Hu; Clone MEM-31

REF CP579298

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD8
Alternative Names	—
Clone	MEM-31
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG2a
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Crude thymus membrane fraction

Specificity

The mouse monoclonal antibody MEM-31 recognizes a conformationally-dependent epitope of CD8 antigen, a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell-

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cell interactions within the immune system. CD8 is a disulfide-linked dimer and exists as a CD8 α/α homodimer or CD8 α/β heterodimer (each monomer approx. 32-34 kDa).

The antibody does not react with formaldehyde-fixed cells; negative in Western Blotting application.

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

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

References

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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