

TECHNICAL DATA SHEET

CyFlow™ CD8a Low Endotoxin Anti-Ms; Clone 53-6.7

REF AN289615

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD8a
Alternative Names	T8, Leu2
Clone	53-6.7
Clonality	monoclonal
Format	Low Endotoxin
Host / Isotype	Rat / IgG2a
Species Reactivity	Mouse
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Mouse spleen cells

Specificity

The rat monoclonal antibody 53-6.7 recognizes mouse CD8a antigen, a 32-34 kDa α chain of the CD8 antigen.

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Application

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

- Flow cytometry
- Immunoprecipitation
- Immunohistochemistry
- Immunocytochemistry
- Functional assays

Storage Buffer

The reagent is provided in azide-free phosphate buffered saline (PBS) solution, pH $\approx$ 7.4; 0.2 μ m filter sterilized. Endotoxin level is less than 0.01 EU/ μ g of the protein, as determined by the LAL test.

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 CD8a (CD8 α) subunit of CD8 T cell coreceptor is expressed in CD8 α/β heterodimers on majority of MHC I-restricted conventional T cells and thymocytes and in CD8 α/α homodimers on subsets of memory T cells, intraepithelial lymphocytes, NK cells, macrophages 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 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.

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

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