TECHNICAL DATA SHEET

CyFlow™ CD8a Alexa Fluor™ 488
Anti-Ms; Clone 53-6.7

REF **AP888121**

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	Alexa Fluor™ 488
Host / Isotype	Rat / IgG2a
Species Reactivity	Mouse
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [0.5 mg/ml]
Immunogen	Mouse spleen cells

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Specificity

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

Application

The reagent is designed for Flow Cytometry analysis. Suggested working usage is 0.5 µg/ml. Indicated dilution is recommended starting point for use of this product, but working concentrations should be validated by the investigator.
Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH ≈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 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.

References

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

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