

TECHNICAL DATA SHEET

CyFlow™ CD8b FITC Anti-Rt; Clone 341

REF BP937236

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD8b
Alternative Names	—
Clone	341
Clonality	monoclonal
Format	FITC
Host / Isotype	Mouse / IgG1
Species Reactivity	Rat
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [0.5 mg/ml]
Immunogen	CD8 positive Wistar rat splenic T cell hybridomas

Specificity

The mouse monoclonal antibody 341 (also known as 34.1) recognizes rat CD8b antigen, a 32-34 kDa β chain of the CD8 coreceptor, expressed on T cell subsets and some other cell types, such as macrophages.

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Application

The reagent is designed for Flow Cytometry analysis. Working concentrations should be determined 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 $\approx$ 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 CD8b (CD8 β) 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, mast 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 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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