

TECHNICAL DATA SHEET

CyFlow™ CD8b Purified Anti-Rt; Clone 341

REF BP764082

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

Specifications

Antigen	CD8b
Alternative Names	—
Clone	341
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Rat
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 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

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

- Flow cytometry
- Immunoprecipitation
- Western blot
- Immunohistochemistry (frozen sections)
- Functional assays

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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