

1P-579-C100

## Monoclonal Antibody to CD8a (mouse) Phycoerythrin (PE) conjugated (0.1 mg)

**Clone:** 53-6.7

Isotype: Rat IgG2a

Specificity: The rat monoclonal antibody 53-6.7 recognizes mouse CD8a (32-34 kDa; alpha

chain of the CD8 antigen).

Regulatory Status: RUO

Immunogen: Mouse spleen cells

Species Reactivity: Mouse

Preparation: The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum

conditions. The conjugate is purified by size-exclusion chromatography.

Concentration: 0.5 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not

use after expiration date stamped on vial label.

**Usage:** The reagent is designed for Flow Cytometry analysis.

Suggested working concentration is 2  $\mu$ g/ml. Indicated dilution is recommended starting point for use of this product. Working concentrations should be determined

by the investigator.

**Expiration:** See vial label

Lot Number: See vial label

Background: The CD8a (CD8 alpha) subunit of CD8 T cell coreceptor is expressed in CD8

alpha/beta heterodimers on majority of MHC I-restricted conventional T cells and thymocytes and in CD8 alpha/alpha 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 alpha/beta but not alpha/alpha 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.



## PRODUCT DATA SHEET

## References:

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\*And many other.

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