

## TECHNICAL DATA SHEET

### CyFlow™ CD8a Purified Anti-Rt; Clone OX-8

**REF** CV104204

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

### Specifications

|                                    |                                           |
|------------------------------------|-------------------------------------------|
| <b>Antigen</b>                     | CD8a                                      |
| <b>Alternative Names</b>           | T8, Leu2                                  |
| <b>Clone</b>                       | OX-8                                      |
| <b>Clonality</b>                   | monoclonal                                |
| <b>Format</b>                      | Purified                                  |
| <b>Host / Isotype</b>              | Mouse / IgG1                              |
| <b>Species Reactivity</b>          | Rat                                       |
| <b>Negative Species Reactivity</b> | —                                         |
| <b>Quantity [Concentration]</b>    | 0.1 mg [ 1 mg/ml ]                        |
| <b>Immunogen</b>                   | High Mw glycoproteins from rat thymocytes |

### Specificity

The mouse monoclonal antibody OX-8 recognizes the hinge-like membrane-proximal domain of rat CD8a, a 32-34 kDa  $\alpha$  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
- Western blot
- Immunohistochemistry
- 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

|                  |                                                                               |
|------------------|-------------------------------------------------------------------------------|
| <b>Storage</b>   | Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze. |
| <b>Stability</b> | Do not use after expiration date stamped on vial label.                       |

## Background Information

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.

## References

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The Safety Data Sheet for this product is available at [www.sysmex-partec.com/services](http://www.sysmex-partec.com/services).

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