

## InnoCyto Inc.

15375 Barranca Pkwy, Suite I-103 Irvine, CA 92618

## **Technical Data Sheet**

PE Anti-Mouse CD8a

**Catalog Number:** 201009, 201010

Size: 25 tests, 100 tests

Target Name: CD8, CD8 alpha, T8, Lyt2, Ly-2

Regulatory Status: RUO

#### **Product Details**

Clone: 53-6.7 Application: FC Reactivity: Mouse

Format: PE

Isotype: Rat IgG2a

Antibody Type: Monoclonal

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v)

BSA

**Protein Concentration:** Supplied at a lot-specific concentration.

Storage and Handling: The antibody solution should be stored undiluted between 2°C and 8°C, and

protected from prolonged exposure to light. Do not freeze.

Recommended Usage: For flow cytometric staining, it is recommended to use 5 uL of this reagent per 0.5-1.0 million cells in a 100  $\mu$ L volume. Optimal reagent performance should be determined by

titration for each specific application.

Excitation Laser: Blue Laser (488 nm) Green/Yellow laser (532/561nm)

### **Background Information**

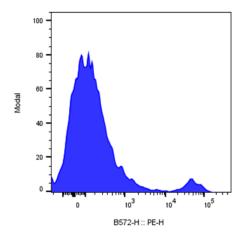
CD8, also known as Lyt-2, Ly-2, or T8, is a cell surface glycoprotein that functions as a co-receptor for antigen recognition and T cell activation. It is typically expressed as a disulfide-linked heterodimer of CD8? and CD8? (CD8??), though CD8? can also form homodimers (CD8??). The CD8? chain is an approximately 32–34 kDa protein of the immunoglobulin superfamily. CD8?? heterodimers are expressed on most thymocytes and a subset of mature TCR?? T cells, while CD8?? homodimers are found on subsets of ?? T cells, intestinal intraepithelial lymphocytes (IELs), NK cells, and some dendritic cells. CD8 binds to MHC class I molecules on antigen-presenting or target cells and, through its cytoplasmic domain association with the tyrosine kinase p56^lck, facilitates intracellular signaling events essential for T cell development, activation, and cytotoxic effector function. CD8+cytotoxic T lymphocytes (CTLs) play a key role in eliminating virus-infected cells, tumor cells, and cells infected by intracellular pathogens.

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Mouse splenocytes stained with either with PE Anti-mouse CD8a clone 53-6.7 (blue histogram) or an isotype control (gray histogram).