InnoCyto Inc.
15375 Barranca Pkwy, Suite I-103
Irvine, CA 92618

Technical Data Sheet

APC Anti-Mouse CD8a

Catalog Number: 201013, 201014
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: APC
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&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 µL volume. Optimal reagent performance should be determined by titration for each specific application.
Excitation Laser: Red Laser (633 nm)
Release Date: Nov-25

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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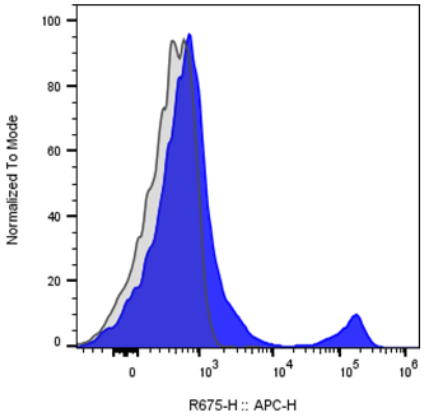

Mouse splenocytes were stained either APC Anti-Mouse CD8a clone 53-6.7 (color-filled histogram) or an isotype control (gray histogram).