InnoCyto Inc.
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Technical Data Sheet

Anti-Mouse CD8a

Catalog Number: 201001, 201002
Size: 100 ug, 500 ug
Target Name: CD8, CD8 alpha, T8, Lyt2, Ly-2
Regulatory Status: RUO

Product Details

Clone: 53-6.7
Application: FC
Reactivity: Mouse
Format: Purified
Isotype: Rat IgG2a
Antibody Type: Monoclonal
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Protein Concentration: 0.5 mg/mL
Storage and Handling: The antibody solution should be stored between 2°C and 8°C

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.