

43-1105: Monoclonal Antibody to Mouse CD8a NALE™ Purified (Clone: 53-6.7)

Clonality :	Monoclonal
Clone Name :	53-6.7
Application :	FACS
Reactivity :	Mouse
Gene :	Cd8a
Gene ID :	12525
Uniprot ID :	P01731
Alternative Name :	Lyt-2, Lyt2, T-cell surface glycoprotein Lyt-2
Isotype :	Rat IgG2a, kappa

Description

The 53-6.7 monoclonal antibody specifically reacts with Ly-2, the 38 kDa alpha chain, and with Lyt-2, the 34 kDa alpha chain, of the mouse CD8 antigen. The alpha chain is the truncated form of alpha chain, encoded by the same CD8a gene. In CD8a, the alpha and alpha chains form heterodimers with CD8b (the beta chains) or homodimers (alpha-alpha), which occur as receptors on the surface of the majority of thymocytes. A subpopulation of mature T lymphocytes expresses the CD8 alpha beta (alpha beta TCR T cells) and a subpopulation of intestinal intraepithelial lymphocytes and dendritic cells express CD8a without CD8b. CD8 interacts with the mouse major histocompatibility complex class I (MHC class I) molecules on antigen-presenting cells or epithelial cells. Its function seems to be to attenuate the CD8-mediated signal for the stimulation of intrathymic T-cell maturation. The 53-6.7 antibody is useful for depleting CD8+ peripheral T lymphocytes. It cross reacts with the alpha- and alpha-like polypeptides on some thymic and peripheral lymphocytes.

Product Info

Amount :	500 µg
Content :	2 mg/ml in Phosphate-buffered aqueous solution, pH7.2.
Storage condition :	The product should be stored undiluted at 4°C. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography. The endotoxin level is determined by LAL test to be less than 0.01 EU/µg of the protein.

Application Note

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.