10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-CD8b.2-AcalephFluor594-labled

Catalog # AP100775

Product Information

Application	FC, IF/IC
Primary Accession	P10300
Reactivity	Mouse
Clonality	Monoclonal
Calculated MW	24288

Additional Information

Gene ID	12526
Other Names	CD8B1; T-cell surface glycoprotein CD8 beta chain; CD8b
Target/Specificity	Recognizes mouse CD8b.2
Dilution	FC~~1:10~50 IF/IC~~N/A
Format	Rat IgG1 kappa. Liquid in PBS, pH 7.3, 0.2% BSA, and 0.02% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	Cd8b
Synonyms	Cd8b1, Ly-3, Lyt-3, Lyt3
Function	Integral membrane glycoprotein that plays an essential role in the immune response and serves multiple functions in responses against both external and internal offenses. In T-cells, functions primarily as a coreceptor for MHC class I molecule:peptide complex. The antigens presented by class I peptides are derived from cytosolic proteins while class II derived from extracellular proteins. Interacts simultaneously with the T-cell receptor (TCR) and the MHC class I proteins presented by antigen presenting cells (APCs). In turn, recruits the Src kinase LCK to the vicinity of the TCR-CD3 complex. A palmitoylation site in the cytoplasmic tail of CD8B chain contributes to partitioning of CD8 into the plasma membrane lipid rafts where signaling proteins are enriched. Once LCK recruited, it initiates different intracellular signaling pathways by phosphorylating various substrates ultimately leading to lymphokine production, motility, adhesion and activation of cytotoxic T-lymphocytes (CTLs). Additionally, plays a critical role in thymic selection of CD8+ T- cells.
Cellular Location	Membrane {ECO:0000250|UniProtKB:P10966}; Single- pass type I membrane protein. Note=Requires the partner CD8A for efficient cell surface expression.

The heterodimer CD8A/CD8B localizes to lipid rafts due to CD8B cytoplasmic tail palmitoylation {ECO:0000250|UniProtKB:P10966}

Background

AcalephFluor594-labled rat monoclonal antibody to CD8b.2

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.