

APC/Cyanine7 anti-human CD8b Antibody

Catalog# / Size	387319 / 25 tests 387320 / 100 tests
Clone	S21011A
Regulatory Status	RUO
Other Names	Lyt3, Ly3, P37, LEU2, CD8B1, CD8b, CD8beta
Isotype	Mouse IgG1, κ
Description	CD8b or CD8 β antigen is also known as Lyt3, or Ly-3. It is a member of the immunoglobulin superfamily expressed on most thymocytes, and some mature T cell subsets. CD8 β forms heterodimers with the CD8 α chain (CD8a). CD8 is an antigen co-receptor on T cells that interacts with MHC class I on antigen-presenting cells. CD8 participates in T cell activation through its association with the T cell receptor complex and protein tyrosine kinase LCK (p56 ^{lck}).

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Immunogen	Human CD8 α /CD8 β -transfected cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Red Laser (633 nm)
Application Notes	Clone S21011A does not interfere with the binding of CD8 α binding antibodies (SK1, HIT8a, RPA-T8). Clone S21011A shows comparable staining signals on 4% paraformaldehyde-fixed cells and unfixed cells. Based on in-house testing, clone S21011A clone reacts with an epitope that is exclusively present on human CD8b, whereas clone QA20A40 reacts with an epitope formed by a heterodimer of human CD8a and CD8b chains.
RRID	AB_3717009 (BioLegend Cat. No. 387319) AB_3717009 (BioLegend Cat. No. 387320)

Antigen Details

Structure	Ig superfamily
Distribution	Subset of T Cells, most thymocytes
Function	TCR co-receptor
Interaction	CD8α
Ligand/Receptor	MHC Class 1 molecules
Cell Type	Lymphocytes, T cells, Thymocytes
Biology Area	Adaptive Immunity, Cancer Biomarkers, Cell Biology, Immunology
Molecular Family	CD Molecules, TCRs
Antigen References	1. Johnson P. 1987. <i>Immunogenetics</i>. 26:174-7. 2. Normont AM & Littman DR, 1988. <i>EMBO J.</i> 7:3433-9.
Gene ID	926

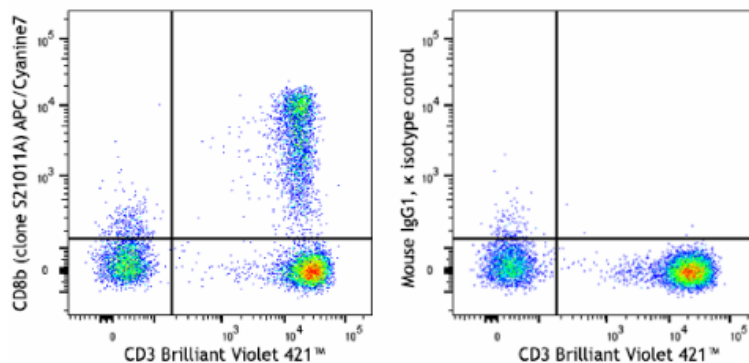
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD8b, APC anti-human CD8b, FITC anti-human CD8b, PerCP/Cyanine5.5 anti-human CD8b, PE anti-human CD8b, Brilliant Violet 421™ anti-human CD8b, Brilliant Violet 605™ anti-human CD8b, PerCP/Fire™ 780 anti-human CD8b Antibody, TotalSeq™-C1571 anti-human CD8b, TotalSeq™-B1571 anti-human CD8b, TotalSeq™-A1571 anti-human CD8b, APC/Cyanine7 anti-human CD8b Antibody

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD3 (clone UCHT1) Brilliant Violet 421™ and anti-human CD8b (clone S21011A) APC/Cyanine7 (left) or mouse IgG1, κ APC/Cyanine7 isotype control (right).

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