

Brilliant Violet 605™ anti-human CD8b Antibody

Catalog# / Size	387315 / 25 tests 387316 / 100 tests
Clone	S21011A
Regulatory Status	RUO
Other Names	Lyt3, Ly3, P37, LEU2, CD8B1, CD8b, CD8beta
Isotype	Mouse IgG1, κ
Description	CD8b or CD8β 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. CD8β forms heterodimers with the CD8α 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 CD8α/CD8β-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 Brilliant Violet 605™ 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	<p>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 μL per million cells in 100 μL staining volume or 5 μL per 100 μL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>Brilliant Violet 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 605™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
Excitation Laser	Violet Laser (405 nm)
Application Notes	Clone S21011A does not interfere with the binding of CD8α 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.

Antigen Details

Structure	Ig superfamily
Distribution	Subset of T Cells, most thymocytes
Function	TCR co-receptor
Interaction	CD8 α
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	<ol style="list-style-type: none">1. Johnson P. 1987. <i>Immunogenetics</i>. 26:174-7.2. Norment AM & Littman DR, 1988. <i>EMBO J</i>. 7:3433-9.
Gene ID	926

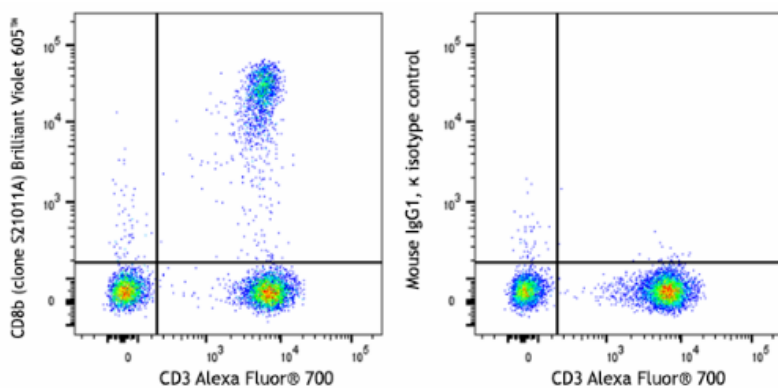
Related Protocols

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

Other Formats

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

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD3 (clone UCHT1) Alexa Fluor® 700 and anti-human CD8b (clone S21011A) Brilliant Violet 605™ (left) or mouse IgG1, κ Brilliant Violet 605™ isotype control (right).

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