

Brilliant Violet 510™ anti-mouse CD8b (Ly-3) Antibody

Catalog# / Size	126631 / 50 µg
Clone	YTS156.7.7 (See other available formats)
Other Names	Lyt-3, Ly-3
Isotype	Rat IgG2b, κ
Description	CD8b is the 32 kD β chain of CD8, also known as Lyt-3 or Ly-3. It is a member of the Ig superfamily expressed as a heterodimer with the CD8α chain on a subset of MHC class I-restricted T cells and most thymocytes. CD8 is a co-receptor for the TCR complex involved in T cell activation.

Product Details

Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse thymocytes
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 510™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 510™ and unconjugated antibody.
Concentration	0.2 mg/ml
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	<i>FC - Quality tested</i>
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 ≤ 0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>Brilliant Violet 510™ excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 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 510™ 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	Additional reported applications (for the relevant formats) include: immunohistochemistry of acetone-fixed frozen tissue sections.
Application References	1. McNical AM, et al. 2007. Eur. J. Immunol. 37:1634.
(PubMed link indicates BioLegend citation)	

Antigen Details

Structure	Ig superfamily, CD8β chain, 34 kD
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Distribution	Majority of thymocytes, cytotoxic T cell subsets
Function	Co-receptor of TCR
Ligand Receptor	MHC class I
Cell Type	T cells, Thymocytes, Tregs
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Barclay A, et al. 1997. The Leukocyte antigen Facts Book Academic Press. 2. Zamoyka R. 1994. Immunity 1:243-246. 3. Ellmeier W, et al. 1999. Annu. Rev Immunol 17:523. 4. Ledbetter JA, et al. 1981. J. Exp. Med. 153:1503.
Gene ID	12526

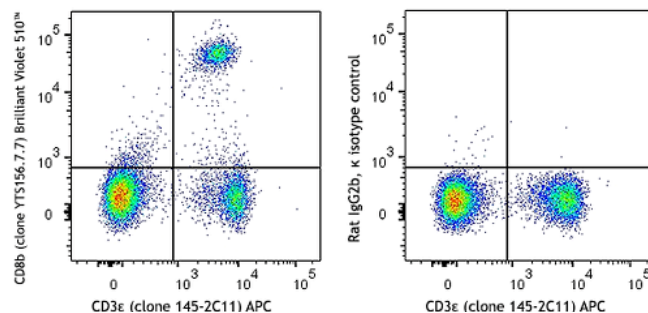
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD8b, Biotin anti-mouse CD8b, FITC anti-mouse CD8b, PE anti-mouse CD8b, PerCP/Cyanine5.5 anti-mouse CD8b, Alexa Fluor® 647 anti-mouse CD8b, APC anti-mouse CD8b, PE/Cy7 anti-mouse CD8b, Alexa Fluor® 700 anti-mouse CD8b, APC/Cy7 anti-mouse CD8b, PE/Dazzle™ 594 anti-mouse CD8b, TotalSeq™-A0230 anti-mouse CD8b (Ly-3), Brilliant Violet 711™ anti-mouse CD8b (Ly-3), Alexa Fluor® 488 anti-mouse CD8b (Ly-3), APC/Fire™ 750 anti-mouse CD8b (Ly-3), Brilliant Violet 421™ anti-mouse CD8b (Ly-3)

Product Data



C57BL/6 mouse splenocytes were first treated with TruStain FcX™ (anti-mouse CD16/32) Antibody and True-Stain Monocyte Blocker™. Cells were then stained with CD3ε APC and CD8b (clone YTS156.7.7) Brilliant Violet 510™ (left) or Rat IgG2b, κ Brilliant Violet 510™ isotype control (right).

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