

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

**Catalog # / Size:** 1233155 / 50 µg

**Clone:** YTS156.7.7

**Isotype:** Rat IgG2b, κ

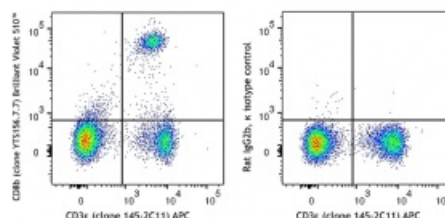
**Immunogen:** Mouse thymocytes

**Reactivity:** Mouse

**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.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

**Concentration:** 0.2 mg/ml



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).

**Applications:**

**Applications:** Flow Cytometry

**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 ≤ 0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

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.

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**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.

**Description:** CD8b is the 32 kD  $\beta$  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 CD8 $\alpha$  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.

**Antigen**  
**References:**

1. Barclay A, et al. 1997. The Leukocyte antigen Facts Book Academic Press.
2. Zamoyska 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.