

**APC/Cyanine7 anti-mouse CD8b.2**

**Catalog # / Size:** 1302110 / 100 µg  
1302105 / 25 µg

**Clone:** 53-5.8

**Isotype:** Rat IgG1, κ

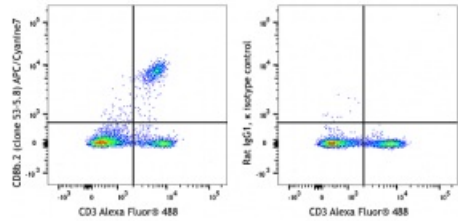
**Immunogen:** Mouse thymus or spleen

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

**Concentration:** 0.2 mg/mL



C57BL/6 mouse splenocytes were stained with CD3 Alexa Fluor® 488 and CD8b.2 (clone 53-5.8) APC/Cyanine7 (left) or rat IgG1, κ APC/Cyanine7 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.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunofluorescence<sup>3</sup>, immunohistochemical staining<sup>4</sup> of frozen tissue section using dry ice-isopentane method and immunoprecipitation<sup>5</sup>.

- Application References:**
1. Ledbetter J, et al. 1979. *Immunol. Rev.* 47:63.
  2. Ledbetter J, et al. 1980. *J. Exp. Med.* 152:280.
  3. Vremec D, et al. 2000. *J. Immunol.* 164:2978. (IF)
  4. Lawrence D, et al. 1999. *J. Virol.* 73:1795. (IHC)
  5. Bosselut R, et al. 1999. *J. Exp. Med.* 190:1517. (IP)

**Description:** CD8b is the 32 kD β chain of CD8, also known as Lyt-3.2 or Ly-3.2. 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. The antibody 53-5.8 is specific for Ly-3.2 and has low reactivity with Ly-3.1.

- Antigen References:**
1. Ledbetter J, et al. 1981. *J. Exp. Med.* 153:1503.
  2. Renard V, et al. 1996. *J. Exp. Med.* 184:2439.