

**Brilliant Violet 421™ anti-mouse CD5**

**Catalog # / Size:** 1103090 / 500 µl  
1103085 / 125 µl  
  
1103145 / 50 µg

**Clone:** 53-7.3

**Isotype:** Rat IgG2a, κ

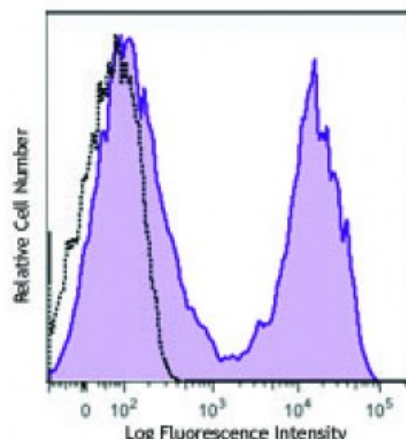
**Immunogen:** Mouse thymus or spleen

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ and unconjugated antibody.

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

**Concentration:** microg sizes: 0.2 mg/ml  
microL sizes: lot-specific



C57BL/6 mouse splenocytes were stained with CD5 (clone 53-7.3) Brilliant Violet 421™ (filled histogram) or rat IgG2a, κ Brilliant Violet 421™ isotype control (open histogram).

**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 using the ug size, the suggested use of this reagent is ≤0.03 microg per million cells in 100 microL volume. For flow cytometric staining, the suggested use of this reagent is ≤5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.

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**Application Notes:** Additional reported applications (for the relevant formats) include: immunoprecipitation<sup>1</sup>, and immunohistochemistry<sup>2</sup> of acetone-fixed frozen tissue sections, zinc-fixed paraffin-embedded sections and formalin-fixed paraffin-embedded sections.

**Application References:** 1. Ledbetter JA, *et al.* 1979. *Immunol. Rev.* 47:63. (IP)  
2. Ledbetter JA, *et al.* 1980. *J. Exp. Med.* 152:280. (FC, IHC)  
3. Bourdeau A, *et al.* 2007. *Blood* doi:10.1182/blood-2006-08-044370.

**Description:** CD5 is a 67 kD protein, also known as Lyt-1, Ly-1, T1, Tp67, or Ly-12. It is a

member of the scavenger receptor cysteine-rich protein superfamily (SRCR) and primarily expressed on thymocytes, T cells, and B-1 cells. Although mature  $\alpha/\beta$  T cells express high levels of CD5, very few  $\gamma/\delta$  T cells express this antigen. The interaction of CD5 with CD72, gp35-37, TCR, or BCR is involved in T and B cell activation.

**Antigen  
References:**

1. Barclay A, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
2. Kipps TJ. 1988. *Adv. Immunol.* 47:117.
3. Antin JH, *et al.* 1985. *J. Immunol.* 136:505.
4. Tarakhovsky A, *et al.* 1