

**Brilliant Violet 605™ anti-human CD5**

**Catalog # / Size:** 2420095 / 25 tests  
2420100 / 100 tests

**Clone:** L17F12

**Isotype:** Mouse IgG2a, κ

**Immunogen:** Human T-acute lymphoblastic leukemia (ALL) cells

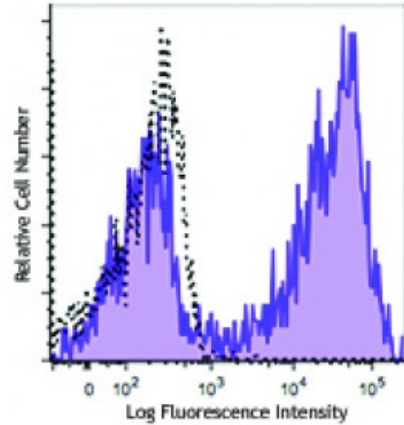
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 605™ and unconjugated antibody.

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

**Workshop Number:** III 518

**Concentration:** Lot-specific



Human peripheral blood lymphocytes were stained with CD5 (clone L17F12) Brilliant Violet 605™ (filled histogram) or mouse IgG2a, κ Brilliant Violet 605™ 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, 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 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.

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**Application Notes:** Additional reported applications (for the relevant formats): immunoprecipitation<sup>1,3,4</sup> and immunohistochemical staining of frozen and formalin-fixed paraffin-embedded sections<sup>2,3,5</sup>.

**Application References:**

1. McAlister MS, *et al.* 1998. *Protein Eng.* 11:847. (IP)
2. Butmarc JR, *et al.* 1998. *Am. J. Clin. Pathol.* 109:682. (IHC)
3. Engleman EG, *et al.* 1981. *Proc. Natl. Acad. Sci. USA* 78:1791. (IHC, IP)
4. Ledbetter JA, *et al.* 1981. *J. Exp. Med.* 153:310. (FC, IP)

**Description:** CD5, also known as Leu-1, Ly-1 and T1, is a 67 kD single chain type I glycoprotein that is a member of the scavenger receptor superfamily. CD5 is expressed on T cells, thymocytes, B cell subsets, chronic B lymphocytic leukemia (B-Cells), and peripheral blood dendritic cells. CD5 modulates T and B cell receptor signaling, thymocyte maturation, and T-B cell interactions. One of its ligands is CD72.

**Antigen**  
**References:**

1. Kipps T. 1989. *Adv. Immunol.* 47:117.
2. Resnick D, *et al.* 1994. *Trends Biochem. Sci.* 1:5.
3. Wood GS and Freudenthal PS. 1992. *Am. J. Pathol.* 141:789.