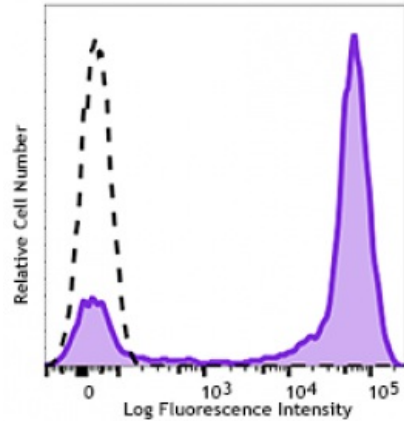


**Brilliant Violet 421™ anti-human CD5**

|                          |  |
|--------------------------|--|
| <b>Catalog # / Size:</b> | 2420150 / 100 tests<br>2420145 / 25 tests  |
| <b>Clone:</b>            | L17F12   |
| <b>Isotype:</b>          | Mouse IgG2a, $\kappa$  |
| <b>Immunogen:</b>        | Human T-acute lymphoblastic leukemia (ALL) cells   |
| <b>Reactivity:</b>       | Human  |
| <b>Preparation:</b>      | 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. |
| <b>Formulation:</b>      | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).   |
| <b>Workshop Number:</b>  | II T7  |
| <b>Concentration:</b>    | Lot-specific   |



Human peripheral blood lymphocytes were stained with Brilliant Violet 421™ anti-human CD5 (clone L17F12, filled histogram) or Brilliant Violet 421™ mouse IgG2a,  $\kappa$  isotype control (open histogram).

**Applications:**

|                           |   |
|---------------------------|---|
| <b>Applications:</b>      | Flow Cytometry  |
| <b>Recommended Usage:</b> | 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 $\mu$ l per million cells or 5 $\mu$ l per 100 $\mu$ l 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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|                           |   |
|---------------------------|---|
| <b>Application Notes:</b> | 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. 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.

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**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.