SONY

Product Data Sheet

Brilliant Violet 421™ anti-human CD5

Catalog # / Size: 2420145 / 25 tests
2420150 / 100 tests

Clone: L17F12

Isotype: Mouse IgG2a, κ

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

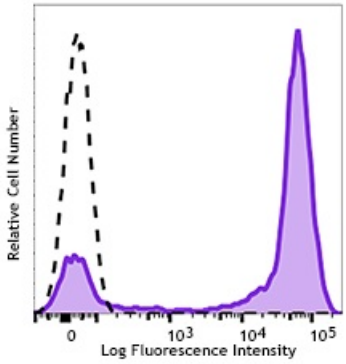
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.

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

Workshop Number: II T7

Concentration: Lot-specific



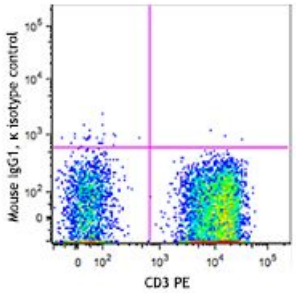
Human peripheral blood lymphocytes were stained with Brilliant Violet 421™ anti-human CD5 (clone L17F12, filled histogram) or Brilliant Violet 421™ mouse IgG2a, κ isotype control (open histogram).

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 µl per million cells or 5 µl per 100 µl 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.



Application Notes: Additional reported applications (for the relevant formats): immunoprecipitation[1,3,4] and immmunohistochemical staining of frozen and formalin-fixed paraffin-embedded sections[2,3,5].

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)
5. Warnke R and Levy R. 1980. *J. Histochem. Cytochem.* 28:771. (IHC)

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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.

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