

Brilliant Violet 421™ anti-human CD5

Catalog # / Size: 2103130 / 100 tests
2103125 / 25 tests

Clone: UCHT2

Isotype: Mouse IgG1, κ

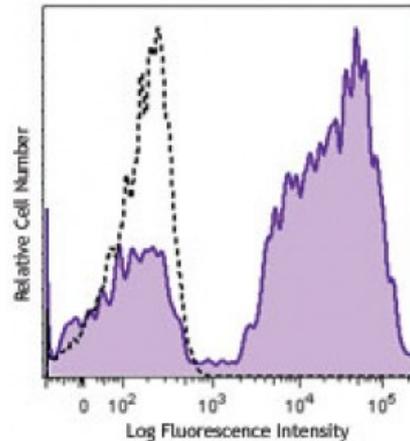
Reactivity: Human

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).

Workshop Number: III 518

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD5 (clone UCHT2) Brilliant Violet 421™ (filled histogram) or mouse IgG1, κ Brilliant Violet 421™ (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 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: Western blotting² and immunohistochemical staining of acetone-fixed frozen sections^{2,5}.

Application References:

1. Knapp W, *et al.* 1989. Leucocyte Typing IV Oxford University Press. New York.
2. Renaudineau Y, *et al.* 2005. *Blood* 106:2781. (WB IHC)
3. Porter JC and Hogg N. 1997. *J. Cell Biol.* 138:1437.
4. Saliba AE, *et al.* 2010. *P. Natl. Acad. Sci. USA* 107:14524. [PubMed](#)
5. Kap Y, *et al.* 2009. *J. Histochem. Cytochem.* 57:1159. (IHC)

Description: CD5 is a 67 kD single chain type I glycoprotein also known as Leu-1, Ly-1 and T1. It is a member of the scavenger receptor superfamily found 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 upon binding to ligands such as CD72.

**Antigen
References:**

1. Kipps T. 1988. *Adv. Immunol.* 47:117.
2. Resnick D, *et al.* 1993. *Trends Biochem. Sci.* 19:5.
3. Wood GS, *et al.* 1992. *Am. J. Pathol.* 14:789.