
Product Data Sheet

Brilliant Violet 711™ anti-human CD5

Catalog # / Size:	2103220 / 100 tests 2103215 / 25 tests	□ Human peripheral blood lymphocytes were stained with CD5 (clone UCHT2) Brilliant Violet 711™ (filled histogram) or mouse IgG1, κ Brilliant Violet 711™ isotype control (open histogram).
Clone:	UCHT2	
Isotype:	Mouse IgG1, κ	
Immunogen:	Mouse IL-9R transfectants	
Reactivity:	Human, Non-human primate, Other	
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 711™ 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	

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 in 100 µL staining volume 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 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 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 711™ 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)
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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.