

Brilliant Violet 605™ anti-human CD5 Antibody

Catalog# / Size	300651 / 25 tests 300652 / 100 tests
Clone	UCHT2
Regulatory Status	RUO
Workshop	III 518
Other Names	Leu-1, Ly-1, T1, Tp67
Isotype	Mouse IgG1, κ
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-CLL), 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.

Product Details

Verified Reactivity	Human
Reported Reactivity	Chimpanzee, Capuchin Monkey, Common Marmoset, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	<p>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.</p> <p>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.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
Excitation Laser	Violet Laser (405 nm)

Application Notes Additional reported applications (for the relevant formats) include: Western blotting² and immunohistochemical staining of acetone-fixed frozen sections^{2,5}.

Application References
(PubMed link indicates BioLegend citation)

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)

RRID AB_3662207 (BioLegend Cat. No. 300651)
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Antigen Details

Structure Scavenger receptor superfamily, 67 kD

Distribution T cells, thymocytes, B cell subset, B cell CLL, peripheral blood dendritic cells

Function Modulates TCR, BCR signaling, thymocyte maturation, T-B cell interaction

Ligand/Receptor CD72

Cell Type B cells, Dendritic cells, Leukemia, T cells, Thymocytes

Biology Area Costimulatory Molecules, Immunology

Molecular Family CD Molecules

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.

Gene ID [921](#)

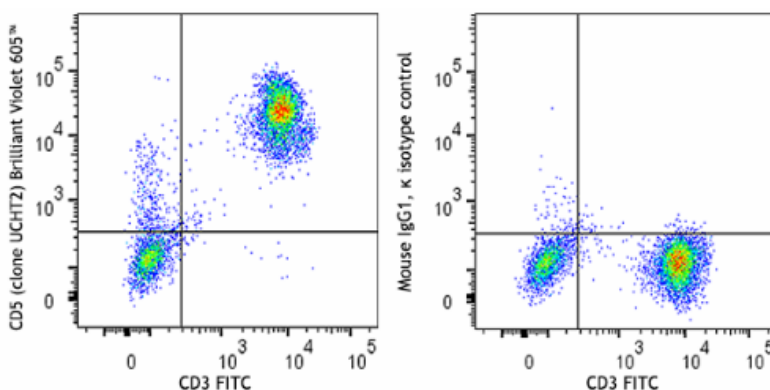
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-human CD5, Biotin anti-human CD5, FITC anti-human CD5, PE anti-human CD5, Purified anti-human CD5, Alexa Fluor® 647 anti-human CD5, PerCP anti-human CD5, PerCP/Cyanine5.5 anti-human CD5, PE/Cyanine7 anti-human CD5, Pacific Blue™ anti-human CD5, Brilliant Violet 421™ anti-human CD5, Purified anti-human CD5 (Maxpar® Ready), APC/Cyanine7 anti-human CD5, Alexa Fluor® 700 anti-human CD5, PE/Dazzle™ 594 anti-human CD5, TotalSeq™-A0138 anti-human CD5, TotalSeq™-C0138 anti-human CD5, APC/Fire™ 750 anti-human CD5, Brilliant Violet 711™ anti-human CD5, TotalSeq™-B0138 anti-human CD5 Antibody, TotalSeq™-D0138 anti-human CD5, Brilliant Violet 510™ anti-human CD5, Spark Red™ 718 anti-human CD5 (Flexi-Fluor™), Brilliant Violet 605™ anti-human CD5

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD3 (clone UCHT1) FITC and anti-human CD5 (clone UCHT2) Brilliant Violet 605™ (left) or mouse IgG1, κ Brilliant Violet 605™ isotype control (right).

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