

## Brilliant Violet 605™ anti-human CD2 Antibody

<b>Catalog# / Size</b>	309245 / 25 tests 309246 / 100 tests
<b>Clone</b>	TS1/8
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	V S025
<b>Other Names</b>	LFA-2, T11, SRBC-R
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	CD2 is a 50 kD type I transmembrane glycoprotein also known as LFA-2, T11, and sheep red blood cell receptor (SRBC-R). This immunoglobulin superfamily member is expressed on thymocytes, T lymphocytes, NK cells, and thymic B cell subsets. The major ligand for CD2 is CD58 (also known as LFA-3). CD2 has also been reported to bind CD48, CD59, and CD15. CD2 plays a critical role in alternative T cell activation, T cell signaling, and cell-cell adhesion.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605™ under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our <a href="#">Certificate of Analysis</a> online tool.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a>. 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><a href="#">Learn more about Brilliant Violet™.</a></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>
<b>Excitation Laser</b>	Violet Laser (405 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: blocking of T cell activation, and partial blocking of B cell costimulation <sup>2</sup> . The Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/

µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. Nos. 309235 & 309236).

#### Application References

1. Schlossman S, et al. Eds. 1995. *Leucocyte Typing V* Oxford University Press. New York.
2. Hughes CCW, et al. 1996. *J. Biol. Chem.* 271:5369.

(PubMed link indicates BioLegend citation)

**RRID** AB\_3698961 (BioLegend Cat. No. 309245)  
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## Antigen Details

<b>Structure</b>	Ig superfamily, type I transmembrane glycoprotein, 50 kD
<b>Distribution</b>	T cells, NK cells, thymocytes, and thymic B cell subsets
<b>Function</b>	T cell activation, adhesion
<b>Ligand/Receptor</b>	CD58 (LFA-3), CD48, CD59, CD15
<b>Cell Type</b>	B cells, NK cells, T cells, Thymocytes
<b>Biology Area</b>	Costimulatory Molecules, Immunology
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	1. Bell G, et al. 1995. <i>J. Immunol.</i> 155:2805. 2. Bierer B, et al. 1989. <i>Annu. Rev. Immunol.</i> 7:579. 3. Moingeon P, et al. 1989. <i>Immunol. Rev.</i> 111:111.
<b>Gene ID</b>	<a href="#">914</a>

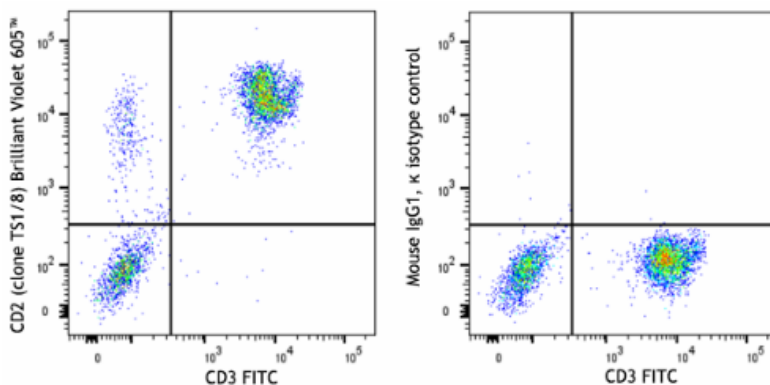
## Related Protocols

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

## Other Formats

FITC anti-human CD2, PE anti-human CD2, Purified anti-human CD2, Pacific Blue™ anti-human CD2, PE/Cyanine7 anti-human CD2, Brilliant Violet 421™ anti-human CD2, Purified anti-human CD2 (Maxpar® Ready), PerCP/Cyanine5.5 anti-human CD2, APC anti-human CD2, APC/Fire™ 750 anti-human CD2, Alexa Fluor® 700 anti-human CD2, TotalSeq™-A0367 anti-human CD2, TotalSeq™-C0367 anti-human CD2, TotalSeq™-B0367 anti-human CD2, Ultra-LEAF™ Purified anti-human CD2, APC/Cyanine7 anti-human CD2, TotalSeq™-D0367 anti-human CD2, GMP PE anti-human CD2, GMP FITC anti-human CD2, GMP APC/Fire™ 750 anti-human CD2, Alexa Fluor® 647 anti-human CD2, PE/Dazzle™ 594 anti-human CD2, Brilliant Violet 605™ anti-human CD2, Brilliant Violet 785™ anti-human CD2

## Product Data



Human peripheral blood lymphocytes were stained with anti-human CD3 (clone UCHT1) FITC and anti-human CD2 (clone TS1/8) Brilliant Violet 605™ (left) or mouse IgG1, κ Brilliant Violet 605™ isotype control (right).

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