

## GMP APC/Fire™ 750 anti-human CD2 Antibody

<b>Catalog# / Size</b>	260320 / 100 tests
<b>Clone</b>	TS1/8
<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>Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing True-Stain Monocyte Blocker™, 0.09% sodium azide and 0.2% (w/v) BSA (origin USA) and a stabilizer.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.
<b>Concentration</b>	50.0 µg/mL
<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>* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 774 nm.</p>
<b>Excitation Laser</b>	Red Laser (633 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).
<b>Application References</b> (PubMed link indicates BioLegend citation)	<ol style="list-style-type: none"><li>Schlossman S, et al. Eds. 1995. Leucocyte Typing V Oxford University Press. New York.</li><li>Hughes CCW, et al. 1996. <i>J. Biol. Chem.</i> 271:5369.</li></ol>
<b>Disclaimer</b>	<p><b>GMP RUO Flow Cytometry Antibodies.</b> BioLegend GMP RUO fluorophore conjugated antibodies are manufactured in a dedicated GMP facility and compliant with ISO 13485:2016. For research use only. Not for use in diagnostic or therapeutic procedures. Our processes include:</p> <ul style="list-style-type: none"><li>• Batch-to-batch consistency</li><li>• Material traceability</li><li>• Documented procedures</li><li>• Documented employee training</li><li>• Equipment maintenance and monitoring records</li><li>• Lot-specific certificates of analysis</li></ul>

- Quality audits per ISO 13485:2016
- QA review of released products

## 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, <i>et al.</i> 1995. <i>J. Immunol.</i> 155:2805. 2. Bierer B, <i>et al.</i> 1989. <i>Annu. Rev. Immunol.</i> 7:579. 3. Moingeon P, <i>et al.</i> 1989. <i>Immunol. Rev.</i> 111:111.
<b>Gene ID</b>	<a href="#">914</a>

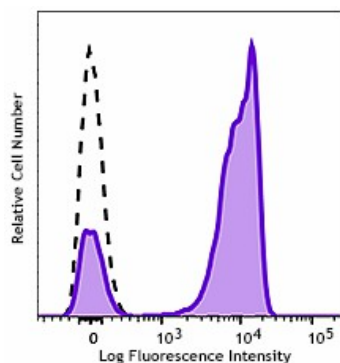
## Related Protocols

[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

## Product Data



Typical results from human peripheral blood lymphocytes stained either with TS1/8 APC/Fire™ 750 used at 5 µL/test (filled histogram) or with an isotype control (open histogram).

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