

Alexa Fluor® 647 anti-human CD2 Antibody

Catalog# / Size	309241 / 25 tests 309242 / 100 tests
Clone	TS1/8
Regulatory Status	RUO
Workshop	V S025
Other Names	LFA-2, T11, SRBC-R
Isotype	Mouse IgG1, κ
Description	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

Verified Reactivity	Human
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 Alexa Fluor® 647 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	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 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.

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Excitation Laser	Red Laser (633 nm)
Application Notes	Additional reported applications (for the relevant formats) include: blocking of T cell activation, and partial blocking of B cell costimulation ² . The Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/ μ g, Azide-Free, 0.2 μ m 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.
(PubMed link indicates BioLegend citation)	2. Hughes CCW, et al. 1996. <i>J. Biol. Chem.</i> 271:5369.

RRID

AB_3716896 (BioLegend Cat. No. 309241)
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Antigen Details

Structure	Ig superfamily, type I transmembrane glycoprotein, 50 kD
Distribution	T cells, NK cells, thymocytes, and thymic B cell subsets
Function	T cell activation, adhesion
Ligand/Receptor	CD58 (LFA-3), CD48, CD59, CD15
Cell Type	B cells, NK cells, T cells, Thymocytes
Biology Area	Costimulatory Molecules, Immunology
Molecular Family	CD Molecules
Antigen References	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.
Gene ID	914

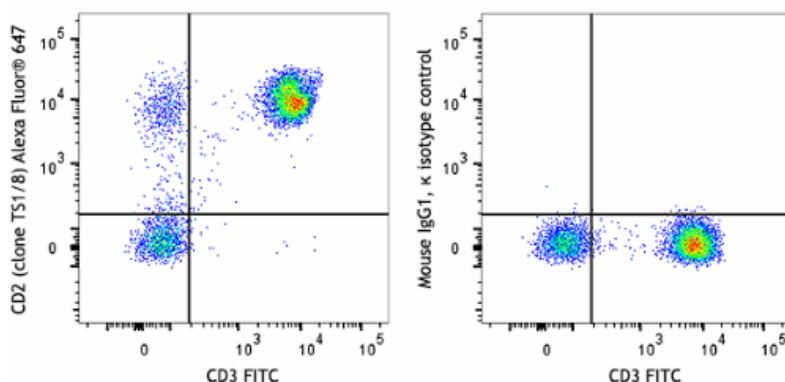
Related Protocols

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

Other Formats

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

Product Data



Human peripheral blood lymphocytes stained with anti-human CD3 FITC and anti-human CD2 (clone TS1/8) Alexa Fluor® 647 (left) or mouse IgG1, κ Alexa Fluor® 647 isotype control (right).

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