

APC/Cyanine7 anti-human CD2 Antibody

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| Catalog# / Size | 309237 / 25 tests 309238 / 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

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| 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 APC/Cyanine7 under optimal conditions. |
| Concentration | Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.) |
| 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 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. |
| 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/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. Nos. 309235 & 309236). |
| Application References (PubMed link indicates BioLegend citation) | <ol style="list-style-type: none"> Schlossman S, et al. Eds. 1995. Leucocyte Typing V Oxford University Press. New York. Hughes CCW, et al. 1996. <i>J. Biol. Chem.</i> 271:5369. |
| RRID | AB_2876607 (BioLegend Cat. No. 309237) AB_2876607 (BioLegend Cat. No. 309238) |

Antigen Details

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| Structure | Ig superfamily, type I transmembrane glycoprotein, 50 kD |
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| 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 |

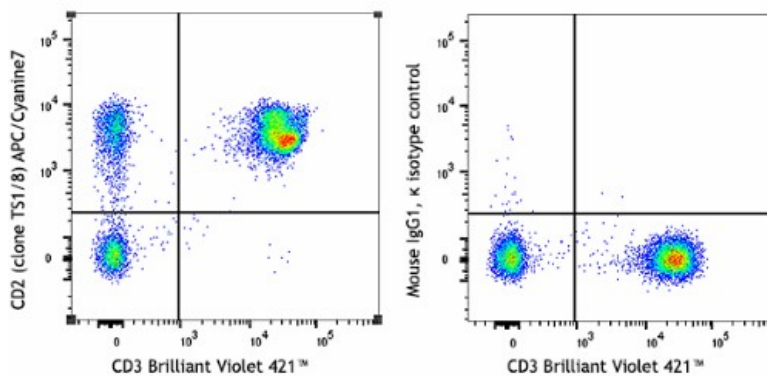
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

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

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD3 Brilliant Violet 421™ and anti-human CD2 (clone TS1/8) APC/Cyanine7 (left) or mouse IgG1, κ APC/Cyanine7 isotype control (right).

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