

Spark PLUS UV395™ anti-human CD2 Antibody

Catalog# / Size	300247 / 25 tests 300248 / 100 tests
Clone	RPA-2.10
Regulatory Status	RUO
Workshop	IV T085
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, Cynomolgus, Rhesus
Reported Reactivity	African Green, Baboon, Capuchin Monkey, Chimpanzee, Pigtailed Macaque, Pig
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 Spark PLUS UV395™ 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 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. * Spark PLUS UV395™ has a maximum excitation of 355 nm and a maximum emission of 385 nm.
Excitation Laser	Ultraviolet Laser (355 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections ⁹ and blocking of T cell activation ² . The Ultra-LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. Nos. 300239 & 300240).

Application References

(PubMed link indicates
BioLegend citation)

1. Knapp W, *et al.* Eds. 1989. Leucocyte Typing IV. Oxford University Press. New York.
2. Aversa G, *et al.* 1987. *Transplant. Proc.* 19:277. (Block)
3. Zaretsky AG, *et al.* 2009. *J. Exp Med.* 206:991. (IHC) [PubMed](#)
4. Perona-Wright G, *et al.* 2010. *Nat. Immunol.* 11:520. (FC) [PubMed](#)
5. Thummler K, *et al.* 2010. *J. Leukoc. Biol.* 88:1041.
6. Kap Y, *et al.* 2009. *J. Histochem. Cytochem.* 57:1159. (IHC)
7. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)

RRID AB_3717227 (BioLegend Cat. No. 300247)
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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	Adhesion Molecules, 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

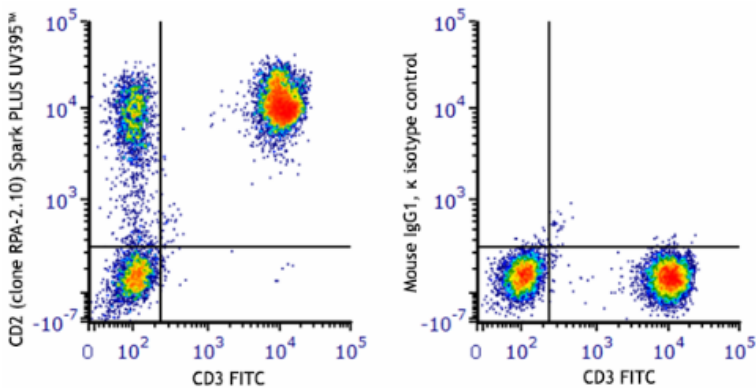
Related Protocols

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

Other Formats

Brilliant Violet 510™ anti-human CD2, APC/Cyanine7 anti-human CD2, PE/Cyanine7 anti-human CD2, Brilliant Violet 605™ anti-human CD2, APC anti-human CD2, Biotin anti-human CD2, PE/Cyanine5 anti-human CD2, FITC anti-human CD2, PE anti-human CD2, Alexa Fluor® 647 anti-human CD2, TotalSeq™-A1523 anti-human CD2 Antibody, TotalSeq™-C1523 anti-human CD2, Spark YG™ 581 anti-human CD2 (Flexi-Fluor™), Spark YG™ 593 anti-human CD2 (Flexi-Fluor™), PE/Dazzle™ 594 anti-human CD2, Brilliant Violet 711™ anti-human CD2, Pacific Blue™ anti-human CD2, Brilliant Violet 785™ anti-human CD2, Ultra-LEAF™ Purified anti-human CD2, Purified anti-human CD2, PerCP/Cyanine5.5 anti-human CD2, Spark PLUS UV395™ anti-human CD2, TotalSeq™-B1523 anti-human CD2 Antibody, Spark PLUS V475™ anti-human CD2 (Flexi-Fluor™), APC/Fire™ 750 anti-human CD2, Brilliant Violet 421™ anti-human CD2, Alexa Fluor® 700 anti-human CD2, Spark PLUS B550™ anti-human CD2 (Flexi-Fluor™), Spark NIR™ 685 anti-human CD2 (Flexi-Fluor™)

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD3 (clone UCHT1) FITC and anti-human CD2 (clone RPA-2.10) Spark PLUS UV395™ (left), or mouse IgG1, κ Spark PLUS UV395™ isotype control (right).

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