

Spark PLUS UV395™ anti-mouse CD38 Antibody

Catalog# / Size	165619 / 25 µg 165620 / 100 µg
Clone	S21016F
Regulatory Status	RUO
Other Names	T10
Isotype	Rat IgG2b, κ
Description	CD38, also known as T10, is a 45 kD type II transmembrane glycoprotein. It is an ADP-ribosyl hydrolase expressed at variable levels on hematopoietic cells and in some non-hematopoietic tissues (such as brain, muscle, and kidney). By functioning as both a cyclase and a hydrolase, CD38 mediates lymphocyte activation, adhesion, and the metabolism of cADPR and NAADP. CD31 is thought to be a ligand of CD38.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse CD38 transfected cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with Spark PLUS UV395™ under optimal conditions.
Concentration	0.2 mg/mL
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 ≤ 0.5 µg per million cells in 100 µL volume. 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	Clone S21016F can completely block the binding of clone "90" on target cells.
RRID	AB_3717178 (BioLegend Cat. No. 165619) AB_3717178 (BioLegend Cat. No. 165620)

Antigen Details

Structure	ADP-ribosyl hydrolase, 42 kD
Distribution	B cells, NK cells, T cell subset, brain, muscle, kidney

Function	Regulation of cellular activation/proliferation, adhesion, metabolism of cADPR and NAADP
Ligand/Receptor	CD31, hyaluronic acid
Cell Type	B cells, Lymphocytes, NK cells, T cells
Biology Area	Cell Biology, Costimulatory Molecules, Immuno-Oncology, Immunology
Molecular Family	CD Molecules

Antigen References

1. Barclay AN, *et al.* 1997. *The Leukocyte Antigen FactsBook Academic Press.*
2. Shubinsky G, *et al.* 1997. *Immunity.* 7:315-24.
3. Cesano A, *et al.* 1998. *J Immunol.* 160:1106-15.
4. Cockayne DA, *et al.* 1998. *Blood.* 92:1324-33.

Gene ID [12494](#)

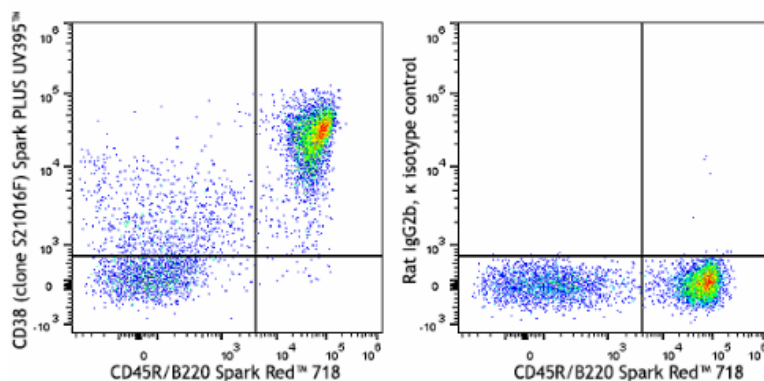
Related Protocols

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

Other Formats

Purified anti-mouse CD38, APC/Fire™ 750 anti-mouse CD38, FITC anti-mouse CD38, PE/Cyanine7 anti-mouse CD38, APC anti-mouse CD38, PE anti-mouse CD38, PerCP/Cyanine5.5 anti-mouse CD38, Pacific Blue™ anti-mouse CD38, PerCP/Fire™ 780 anti-mouse CD38 Antibody, Spark Red™ 718 anti-mouse CD38 (Flexi-Fluor™), Spark PLUS UV395™ anti-mouse CD38 Antibody, StarBright UltraViolet 740 anti-mouse CD38, Spark Blue™ 550 anti-mouse CD38 (Flexi-Fluor™), Spark Blue™ 574 anti-mouse CD38 (Flexi-Fluor™)

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse/human CD45R/B220 (clone RA3-6B2) Spark Red™ 718 and anti-mouse CD38 (clone S21016F) Spark PLUS UV395™ (left) or rat IgG2b, κ Spark PLUS UV395™ isotype control (right).

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