

Spark PLUS B574™ anti-mouse CD20 Antibody

Catalog# / Size	150443 / 25 µg 150444 / 100 µg
Clone	SA275A11
Regulatory Status	RUO
Other Names	Ms4a1, Ly-44
Isotype	Rat IgG2b, κ
Description	CD20 is a 33-37 kD protein, a member of the MS4A family, with four transmembrane spanning regions that present as a homo-oligomeric complexes in the cell surface when associating with MHC class I and II, CD53, CD81, and CD82. CD20 is expressed on B cells and a subset of T cells, but not on plasma cells. CD20 regulates B-cell activation and proliferation. Its ligation promotes transmembrane Ca ²⁺ trafficking. CD20 is an important therapeutic target in the treatment of B cell lymphomas and leukemias.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse CD20 - 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 B574™ 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 ≤ 1.0 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS B574™ has a maximum excitation of 506 nm and a maximum emission of 574 nm.
Excitation Laser	Blue Laser (488 nm)
RRID	AB_3717243 (BioLegend Cat. No. 150443) AB_3717243 (BioLegend Cat. No. 150444)

Antigen Details

Structure	Member of the MS4A family, four transmembrane spanning regions, three isoforms of 37, 35, and 37 kD, depending on the phosphorylation degree.
Distribution	B cells and a subset of T cells.

Function	Regulates B-cell activation and proliferation.
Interaction	Associated with MHC class I and II, CD53, CD81, and CD82.
Cell Type	B cells, T cells
Biology Area	Costimulatory Molecules, Immunology
Molecular Family	CD Molecules
Antigen References	1. Morsy DE, <i>et al.</i> 2013. <i>J. Immunol.</i> 191:3112. 2. Lund FE, Randall TD. 2010. <i>Nat. Rev. Immunol.</i> 10:236. 3. Beers SA, <i>et al.</i> 2010. <i>Blood</i> 115:5191. 4. Kuijpers TW, <i>et al.</i> 2010. <i>J. Clin. Invest.</i> 120:214.
Gene ID	12482

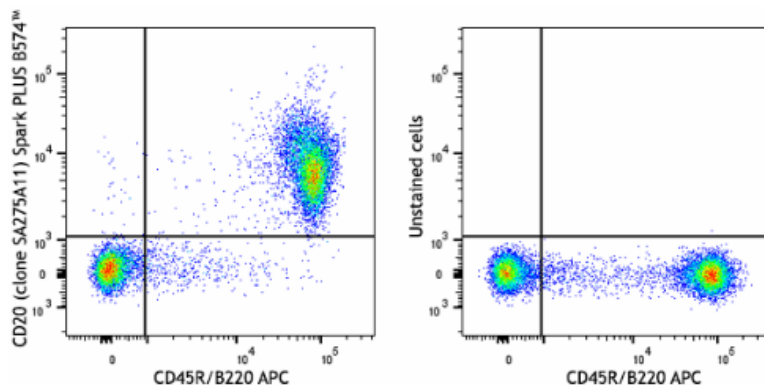
Related Protocols

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

Other Formats

KIRAVIA Blue 520™ anti-mouse CD20 Antibody, PE/Dazzle™ 594 anti-mouse CD20 Antibody, Alexa Fluor® 488 anti-mouse CD20 Antibody, APC/Fire™ 810 anti-mouse CD20, Brilliant Violet™ 605 anti-mouse CD20, Brilliant Violet 421™ anti-mouse CD20, FITC anti-mouse CD20, PE anti-mouse CD20, APC anti-mouse CD20, Alexa Fluor® 647 anti-mouse CD20, APC/Cyanine7 anti-mouse CD20, PerCP/Cyanine5.5 anti-mouse CD20, TotalSeq™-C0192 anti-mouse CD20, Spark PLUS B574™ anti-mouse CD20 Antibody, PE/Cyanine7 anti-mouse CD20, TotalSeq™-A0192 anti-mouse CD20, PerCP/Fire™ 780 anti-mouse CD20 Antibody, Biotin anti-mouse CD20, Alexa Fluor® 700 anti-mouse CD20, TotalSeq™-B0192 anti-mouse CD20, PerCP/Fire™ 806 anti-mouse CD20 Antibody

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse/human CD45R/B220 (clone RA3-6B2) APC and anti-mouse CD20 (clone SA275A11) Spark PLUS B574™ (left) or stained with anti-mouse/human CD45R/B220 (clone RA3-6B2) APC only (right).

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