Spark Violet™ 538 anti-mouse CD19 Antibody

Catalog# / Size	115591 / 25 µg 115592 / 100 µg
Clone	6D5
Regulatory Status	RUO
Other Names	B4
Isotype	Rat IgG2a, κ
Description	CD19 is a 95 kD glycoprotein also known as B4. It is a member of the Ig superfamily, expressed on all pro-B to mature B cells (during development) and follicular dendritic cells. Plasma cells do not express CD19. CD19, in association with CD21 and CD81, forms a molecular complex integral to B cell activation.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse CD19-expressing K562 human erythroleukemia 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 Violet™ 538 under optimal conditions.
Concentration	0.5 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 Violet™ 538 has a maximum excitation of 396 nm and a maximum emission of 538 nm.
Excitation Laser	Violet Laser (405 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunofluorescence[7].
Application References **(PubMed link indicates BioLegend citation)**	1. Shoham T, *et al.* 2003. *J. Immunol.* 171:4062. (FC) 2. Goodyear CS, *et al.* 2004. *J. Immunol.* 172:2870. (FC) 3. Kamimura D, *et al.* 2006. *J. Immunol.* 177:306. (FC) 4. Andoniou CE, *et al.* 2005. *Nat. Immunol.* 6:1011. (FC) 5. Lawson BR, *et al.* 2007. *J. Immunol.* 178:5366. (FC) 6. Phan TG, *et al.* 2007. *Nat. Immunol.* 8:992. (FC) 7. Hayashida K, *et al.* 2008. *J. Biol. Chem.* 283:19895. (IF) PubMed 8. Charles N, *et al.* 2010. *Nat. Med.* 16:701. (FC) PubMed 9. Bankoti J, *et al.* 2010. *Toxicol. Sci.* 115:422. (FC) PubMed 10. Stadnisky MD, *et al.* 2011. *Blood.* 117:5133. (FC) PubMed 11. Perlot T, *et al.* 2012. *J. Immunol.* 188:1201. (FC) PubMed 12. Olive V, *et al.* 2013. *Elife.* 2:822. PubMed See More

RRID	AB_3674978 (BioLegend Cat. No. 115591) AB_3674978 (BioLegend Cat. No. 115592)

Antigen Details

Structure	Ig superfamily, associates with CD21 and CD81, 95 kD
Distribution	Pro-B cells to mature B cells (during development), follicular dendritic cells
Function	Modulates B cell activation and differentiation
Ligand/Receptor	CD21, CD81, Leu-13
Cell Type	B cells, Dendritic cells
Biology Area	Costimulatory Molecules, Immunology
Molecular Family	CD Molecules
Antigen References	1. Fearon DT. 1993. *Curr. Opin. Immunol.* 5:341. 2. Krop I, *et al.* 1996. *Eur. J. Immunol.* 26:238. 3. Krop I, *et al.* 1996. *J. Immunol.* 157:48. 4. Tedder TF, *et al.* 1994. *Immunol. Today* 15:437.
Gene ID	12478

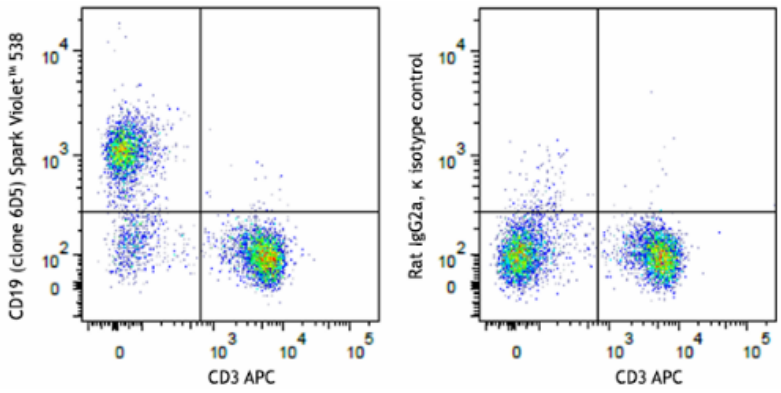
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

Other Formats

APC anti-mouse CD19, Biotin anti-mouse CD19, FITC anti-mouse CD19, PE anti-mouse CD19, PE/Cyanine5 anti-mouse CD19, Purified anti-mouse CD19, PE/Cyanine7 anti-mouse CD19, Alexa Fluor® 488 anti-mouse CD19, Alexa Fluor® 647 anti-mouse CD19, Pacific Blue™ anti-mouse CD19, Alexa Fluor® 700 anti-mouse CD19, APC/Cyanine7 anti-mouse CD19, PerCP anti-mouse CD19, PerCP/Cyanine5.5 anti-mouse CD19, Alexa Fluor® 594 anti-mouse CD19, Brilliant Violet 421™ anti-mouse CD19, Brilliant Violet 570™ anti-mouse CD19, Brilliant Violet 605™ anti-mouse CD19, Brilliant Violet 650™ anti-mouse CD19, Brilliant Violet 785™ anti-mouse CD19, Brilliant Violet 510™ anti-mouse CD19, Purified anti-mouse CD19 (Maxpar® Ready), PE/Dazzle™ 594 anti-mouse CD19, Brilliant Violet 711™ anti-mouse CD19, APC/Fire™ 750 anti-mouse CD19, TotalSeq™-A0093 anti-mouse CD19, Brilliant Violet 750™ anti-mouse CD19, TotalSeq™-B0093 anti-mouse CD19, Spark Blue™ 550 anti-mouse CD19, Spark NIR™ 685 anti-mouse CD19, TotalSeq™-C0093 anti-mouse CD19, Ultra-LEAF™ Purified anti-mouse CD19, PE/Fire™ 640 anti-mouse CD19 Antibody, Spark YG™ 581 anti-mouse CD19, APC/Fire™ 810 anti-mouse CD19, Spark YG™ 570 anti-mouse CD19, Spark Blue™ 574 anti-mouse CD19 Antibody, Spark Blue™ 515 anti-mouse CD19, Spark UV™ 387 anti-mouse CD19, Spark Red™ 718 anti-mouse CD19 (Flexi-Fluor™), Spark PLUS UV395™ anti-mouse CD19, Spark Violet™ 538 anti-mouse CD19, PerCP/Fire™ 780 anti-mouse CD19 Antibody, PerCP/Fire™ 806 anti-mouse CD19 Antibody, Spark YG™ 593 anti-mouse CD19 (Flexi-Fluor™) Antibody

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CD3ε (clone 145-2C11) APC and anti-mouse CD19 (clone 6D5) Spark Violet™ 538 (left) or rat IgG2a, κ Spark Violet™ 538 isotype control (right).

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