

Brilliant Violet 750™ anti-mouse CD19 Antibody

Catalog# / Size	115561 / 50 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 and BSA (origin USA).
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 750™ 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	<p>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 ≤0.125 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>Brilliant Violet 750™ excites at 405 nm and emits at 750 nm. The bandpass filter 780/60 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 750™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
Excitation Laser	Violet Laser (405 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunofluorescence ⁷ .
Application References	<ol style="list-style-type: none">1. Shoham T, <i>et al.</i> 2003. <i>J. Immunol.</i> 171:4062. (FC)2. Goodyear CS, <i>et al.</i> 2004. <i>J. Immunol.</i> 172:2870. (FC)3. Kamimura D, <i>et al.</i> 2006. <i>J. Immunol.</i> 177:306. (FC)4. Andoniou CE, <i>et al.</i> 2005. <i>Nat. Immunol.</i> 6:1011. (FC)
(PubMed link indicates BioLegend citation)	

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](#)
13. Miyai T, *et al.* 2014. *PNAS.* 111:11780. [PubMed](#)

Product Citations

1. Gomez S, *et al.* 2022. *J Immunother Cancer.* 10:. [PubMed](#)

RRID

AB_2813978 (BioLegend Cat. No. 115561)

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	<ol style="list-style-type: none"> 1. Fearon DT. 1993. <i>Curr. Opin. Immunol.</i> 5:341. 2. Krop I, <i>et al.</i> 1996. <i>Eur. J. Immunol.</i> 26:238. 3. Krop I, <i>et al.</i> 1996. <i>J. Immunol.</i> 157:48. 4. Tedder TF, <i>et al.</i> 1994. <i>Immunol. Today</i> 15:437.
Gene ID	12478

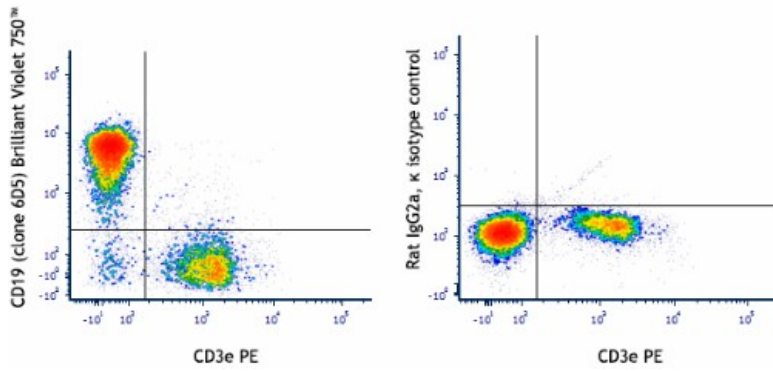
Related Protocols

[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

Product Data



C57BL/6 mouse splenocytes were stained with CD3e PE and CD19 (clone 6D5) Brilliant Violet 750™ (left) or Rat IgG2a, κ FITC isotype control (right).

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
 Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587