

## Spark YG™ 581 anti-mouse CD19 Antibody

<b>Catalog# / Size</b>	115575 / 25 µg 115576 / 100 µg
<b>Clone</b>	6D5
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	B4
<b>Isotype</b>	Rat IgG2a, κ
<b>Description</b>	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

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	Mouse CD19-expressing K562 human erythroleukemia cells
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with Spark YG™ 581 under optimal conditions.
<b>Concentration</b>	0.5 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.  * Spark YG™ 581 has a maximum excitation of 562 nm and a maximum emission of 581 nm.
<b>Excitation Laser</b>	Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunofluorescence <sup>7</sup> .
<b>Application References</b>	<ol style="list-style-type: none"><li>1. Shoham T, <i>et al.</i> 2003. <i>J. Immunol.</i> 171:4062. (FC)</li><li>2. Goodyear CS, <i>et al.</i> 2004. <i>J. Immunol.</i> 172:2870. (FC)</li><li>3. Kamimura D, <i>et al.</i> 2006. <i>J. Immunol.</i> 177:306. (FC)</li><li>4. Andoniou CE, <i>et al.</i> 2005. <i>Nat. Immunol.</i> 6:1011. (FC)</li><li>5. Lawson BR, <i>et al.</i> 2007. <i>J. Immunol.</i> 178:5366. (FC)</li><li>6. Phan TG, <i>et al.</i> 2007. <i>Nat. Immunol.</i> 8:992. (FC)</li><li>7. Hayashida K, <i>et al.</i> 2008. <i>J. Biol. Chem.</i> 283:19895. (IF) <a href="#">PubMed</a></li><li>8. Charles N, <i>et al.</i> 2010. <i>Nat. Med.</i> 16:701. (FC) <a href="#">PubMed</a></li><li>9. Bankoti J, <i>et al.</i> 2010. <i>Toxicol. Sci.</i> 115:422. (FC) <a href="#">PubMed</a></li><li>10. Stadnisky MD, <i>et al.</i> 2011. <i>Blood.</i> 117:5133. (FC) <a href="#">PubMed</a></li><li>11. Perlot T, <i>et al.</i> 2012. <i>J. Immunol.</i> 188:1201. (FC) <a href="#">PubMed</a></li><li>12. Olive V, <i>et al.</i> 2013. <i>Elife.</i> 2:822. <a href="#">PubMed</a></li><li>13. Miyai T, <i>et al.</i> 2014. <i>PNAS.</i> 111:11780. <a href="#">PubMed</a></li></ol>
<b>RRID</b>	AB_2894631 (BioLegend Cat. No. 115575) AB_2894631 (BioLegend Cat. No. 115576)

## Antigen Details

<b>Structure</b>	Ig superfamily, associates with CD21 and CD81, 95 kD
<b>Distribution</b>	Pro-B cells to mature B cells (during development), follicular dendritic cells
<b>Function</b>	Modulates B cell activation and differentiation
<b>Ligand/Receptor</b>	CD21, CD81, Leu-13
<b>Cell Type</b>	B cells, Dendritic cells
<b>Biology Area</b>	Costimulatory Molecules, Immunology
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"><li>1. Fearon DT. 1993. <i>Curr. Opin. Immunol.</i> 5:341.</li><li>2. Krop I, et al. 1996. <i>Eur. J. Immunol.</i> 26:238.</li><li>3. Krop I, et al. 1996. <i>J. Immunol.</i> 157:48.</li><li>4. Tedder TF, et al. 1994. <i>Immunol. Today</i> 15:437.</li></ol>
<b>Gene ID</b>	<a href="#">12478</a>

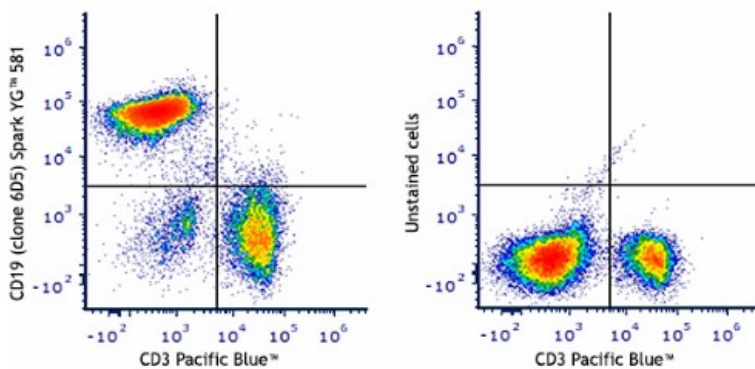
## Related Protocols

[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 anti-mouse CD3 Pacific Blue™ and anti-mouse CD19 (clone 6D5) Spark YG™ 581 (left) or stained with CD3 Pacific Blue™ only (right).

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