

## Spark PLUS B550™ anti-mouse CD19 Antibody

<b>Catalog# / Size</b>	152433 / 25 µg 152434 / 100 µg
<b>Clone</b>	1D3/CD19
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	B4, CVID3
<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>	Transfected k562 cells expressing the extracellular domain of murine CD19.
<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 PLUS B550™ under optimal conditions.
<b>Concentration</b>	0.2 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 ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.  * Spark PLUS B550™ has a maximum excitation of 516 nm and a maximum emission of 540 nm.
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: blocking <sup>1,2</sup> and immunoprecipitation <sup>1</sup> .
<b>Application References</b>	1. Krop I, <i>et al.</i> 1996. <i>Eur. J. Immunol.</i> 26:238. (FC, Blocking, IP) 2. Abraham P, <i>et al.</i> 2014. <i>Clin. Exp. Immunol.</i> 175:181. (Blocking)
<b>(PubMed link indicates BioLegend citation)</b>	
<b>RRID</b>	AB_3698916 (BioLegend Cat. No. 152433) AB_3698916 (BioLegend Cat. No. 152434)

### Antigen Details

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<b>Structure</b>	Ig superfamily, associates with CD21 and CD81, 95 kD.
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<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, <i>et al.</i> 1996. <i>Eur. J. Immunol.</i> 26:238.</li> <li>3. Krop I, <i>et al.</i> 1996. <i>J. Immunol.</i> 157:48.</li> <li>4. Tedder TF, <i>et al.</i> 1994. <i>Immunol. Today</i> 15:437.</li> </ol>
<b>Gene ID</b>	<a href="#">12478</a>

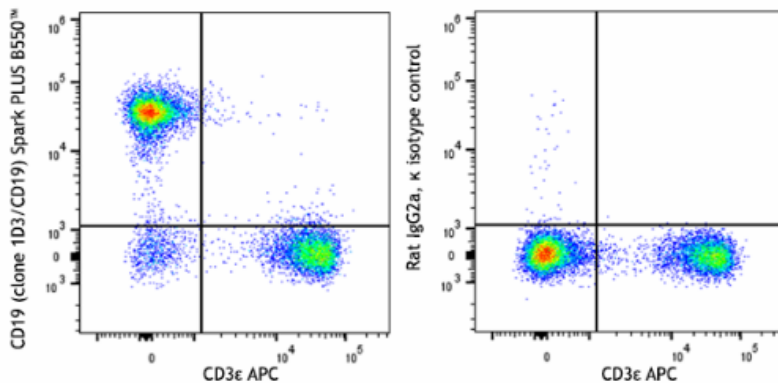
## Related Protocols

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

## Other Formats

Purified anti-mouse CD19, FITC anti-mouse CD19, PerCP/Cyanine5.5 anti-mouse CD19, PE anti-mouse CD19, APC anti-mouse CD19, APC/Cyanine7 anti-mouse CD19, Alexa Fluor® 700 anti-mouse CD19, Pacific Blue™ anti-mouse CD19, PE/Cyanine7 anti-mouse CD19, Biotin anti-mouse CD19, Brilliant Violet 421™ anti-mouse CD19, Brilliant Violet 510™ anti-mouse CD19, Brilliant Violet 605™ anti-mouse CD19, Brilliant Violet 650™ anti-mouse CD19, Brilliant Violet 711™ anti-mouse CD19, Brilliant Violet 785™ anti-mouse CD19, Spark PLUS B550™ anti-mouse CD19, 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 1D3/CD19) Spark PLUS B550™ (left) or with rat IgG2a, κ Spark PLUS B550™ isotype control (right).

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