

## Brilliant Violet 711™ anti-mouse CD19 Antibody

<b>Catalog# / Size</b>	152429 / 50 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 and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711™ 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>	<p>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.</p> <p>Brilliant Violet 711™ excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 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 711™ is a trademark of Sirigen Group Ltd.</p> <p><a href="#">Learn more about Brilliant Violet™.</a></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>
<b>Excitation Laser</b>	Violet Laser (405 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: blocking <sup>1,2</sup> and immunoprecipitation <sup>1</sup> .

## Application References

1. Krop I, *et al.* 1996. *Eur. J. Immunol.* 26:238. (FC, Blocking, IP)
2. Abraham P, *et al.* 2014. *Clin. Exp. Immunol.* 175:181. (Blocking)

(PubMed link indicates BioLegend citation)

RRID AB\_3683170 (BioLegend Cat. No. 152429)

## 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, <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>

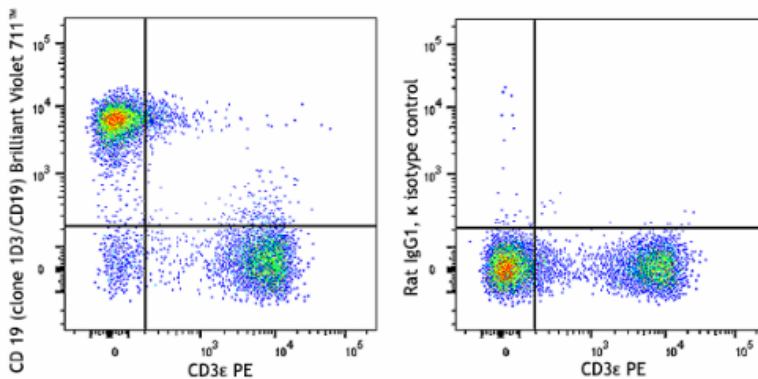
## Related Protocols

- [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) PE and anti-mouse CD19 (clone 1D3/CD19) Brilliant Violet 711™ (left) or rat IgG2a, κ Brilliant Violet 711™ isotype control (right).

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