

## Brilliant Violet 421™ anti-mouse CD20 Recombinant Antibody

<b>Catalog# / Size</b>	161411 / 50 µg
<b>Clone</b>	QA18A73
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Ms4a1, Ly-44
<b>Isotype</b>	Mouse IgG2a, κ
<b>Description</b>	CD20 is a 33-37 kD protein, a member of the MS4A family, with four transmembrane spanning regions that present as a homo-oligomeric complexes in the cell surface when associating with MHC class I and II, CD53, CD81, and CD82. CD20 is expressed on B cells and a subset of T cells, but not on plasma cells. CD20 regulates B-cell activation and proliferation. Its ligation promotes transmembrane Ca <sup>2+</sup> trafficking. CD20 is an important therapeutic target in the treatment of B cell lymphomas and leukemias.

### Product Details

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Recombinant
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Mouse CD20 transfected cells
<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 421™ 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 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ 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>	This recombinant antibody clone is derived from clone SA271G2.
<b>RRID</b>	AB_3683179 (BioLegend Cat. No. 161411)

## Antigen Details

<b>Structure</b>	Member of the MS4A family, four transmembrane spanning regions, three isoforms of 37, 35, and 37 kD, depending on the phosphorylation degree.
<b>Distribution</b>	B cells and a subset of T cells
<b>Function</b>	Regulates B-cell activation and proliferation
<b>Interaction</b>	Associates with MHC class I and II, CD53, CD81, and CD82
<b>Antigen References</b>	1. Morsy DE, <i>et al.</i> 2013. <i>J. Immunol.</i> 191:3112. 2. Pang X, <i>et al.</i> 2017. <i>Hum Gene Ther.</i> 28(2):216-225. 3. Uchida J, <i>et al.</i> 2004. <i>Int Immunol.</i> 16(1):119-29
<b>Gene ID</b>	<a href="#">12482</a>

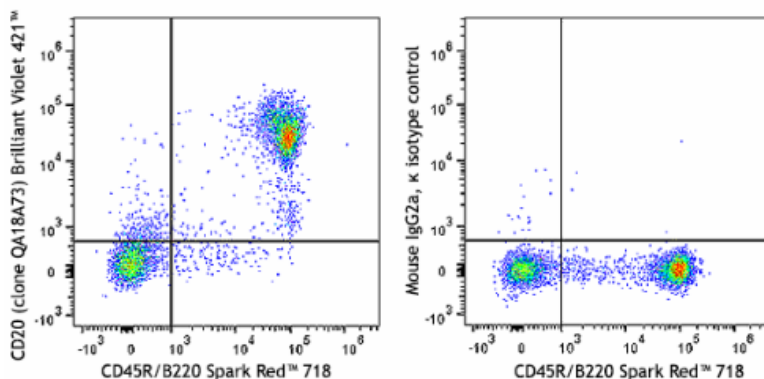
## Related Protocols

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

## Other Formats

Purified anti-mouse CD20 Recombinant Antibody, APC anti-mouse CD20 Recombinant Antibody, PE anti-mouse CD20 Recombinant Antibody, Ultra-LEAF™ Purified anti-mouse CD20 Recombinant Antibody, FITC anti-mouse CD20 Recombinant Antibody , Brilliant Violet 421™ anti-mouse CD20 Recombinant Antibody

## Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse/human CD45R/B220 (clone RA3-6B2) Spark Red™ 718 and anti-mouse CD20 recombinant (clone QA18A73) Brilliant Violet 421™ (left) or mouse IgG2a, κ Brilliant Violet 421™ isotype control (right).

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