

## Brilliant Violet 510™ anti-mouse IgM Antibody

<b>Catalog# / Size</b>	406531 / 50 µg
<b>Clone</b>	RMM-1
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Immunoglobulin M
<b>Isotype</b>	Rat IgG2a, κ
<b>Description</b>	IgM is the first immunoglobulin made by B cells in the immune response. Surface IgM is expressed on the majority of mature B cells.

### 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 Ig cocktail
<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 510™ 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 immunofluorescent staining with flow cytometric analysis. 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 510™ excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. <b>Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.</b> Refer to your instrument manual or manufacturer for support. Brilliant Violet 510™ 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>	The RMM-1 antibody reacts with both soluble and membrane immunoglobulin M in all tested mouse haplotypes (Igh-a and b). It does not react with other isotypes. Some formats of the RMM-1 antibody may be used as primary or secondary reagent for immunofluorescent staining or ELISA analysis.
<b>Application References</b>	1. Tertilt C, <i>et al.</i> 2009. <i>Infect. Immun.</i> 77:3044. (ELISA) <a href="#">PubMed</a>
<b>(PubMed link indicates BioLegend citation)</b>	

## Product Citations

1. Lino AC *et al.* 2018. *Immunity*. 49(1):120-133 . [PubMed](#)
2. Luck H, *et al.* 2019. *Nat Commun*. 10:3650. [PubMed](#)

## RRID

AB\_2650758 (BioLegend Cat. No. 406531)

## Antigen Details

Structure	Ig family
Distribution	B cells
Function	B cell differentiation, humoral immune response; cross-linking surface IgM induces apoptosis
Cell Type	B cells
Biology Area	Immunology
Gene ID	<a href="#">16019</a>

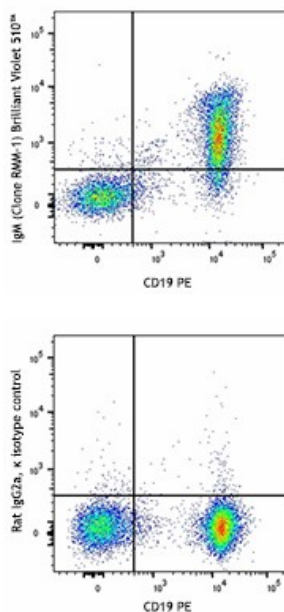
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-mouse IgM, PE anti-mouse IgM, Biotin anti-mouse IgM, FITC anti-mouse IgM, APC anti-mouse IgM, PerCP/Cyanine5.5 anti-mouse IgM, APC/Cyanine7 anti-mouse IgM, Brilliant Violet 421™ anti-mouse IgM, PE/Cyanine7 anti-mouse IgM, Alexa Fluor® 488 anti-mouse IgM, Brilliant Violet 605™ anti-mouse IgM, Alexa Fluor® 647 anti-mouse IgM, Purified anti-mouse IgM (Maxpar® Ready), PE/Dazzle™ 594 anti-mouse IgM, Brilliant Violet 510™ anti-mouse IgM, TotalSeq™-A0450 anti-mouse IgM, Brilliant Violet 711™ anti-mouse IgM, APC/Fire™ 750 anti-mouse IgM, TotalSeq™-C0450 anti-mouse IgM, PE/Cyanine5 anti-mouse IgM, TotalSeq™-B0450 anti-mouse IgM, Spark Violet™ 423 anti-mouse IgM

## Product Data



C57BL/6 splenocytes were stained with CD19 PE and anti-mouse IgM (clone RMM-1) Brilliant Violet 510™ (top) or rat IgG2a, κ Brilliant Violet 510™ isotype control (bottom).

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