

## Brilliant Violet 711™ anti-mouse MERTK (Mer) Antibody

<b>Catalog# / Size</b>	151515 / 50 µg
<b>Clone</b>	2B10C42
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Mer, Eyk, Nyk, nmf12
<b>Isotype</b>	Rat IgG2a, κ
<b>Description</b>	MerTK (Mer) is a member of the TAM (TYRO3/AXL/MerTK) family. It is a transmembrane protein with two fibronectin type-III domains, two Ig-like C2-type domains, and one tyrosine kinase domain. MerTK is mainly expressed by macrophages, monocytes, and dendritic cells. Its ligands are LGALS3, TUB, TULP1, and GAS6. MerTK is involved in the regulation of TLR signaling, efferocytosis, phagocytosis, cell survival, macrophage migration, and the inhibition of inflammation.

### 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 MERTK extracellular domain
<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 ≤ 0.25 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>RRID</b>	AB_2876505 (BioLegend Cat. No. 151515)

## Antigen Details

<b>Structure</b>	Member of the TAM (TYRO3/AXL/MerTK) family. Encodes a transmembrane protein, two fibronectin type-III domains, two Ig-like C2-type domains, and one tyrosine kinase domain.
<b>Distribution</b>	Macrophages, monocytes, and dendritic cells.
<b>Function</b>	Regulates TLR signaling, efferocytosis, phagocytosis, cell survival, and macrophage migration. Inhibits production of inflammatory cytokines.
<b>Interaction</b>	Grb2, LimD4, and Vav1.
<b>Ligand/Receptor</b>	LGALS3, TUB, TULP1, and GAS6.
<b>Cell Type</b>	Dendritic cells, Macrophages, Monocytes
<b>Biology Area</b>	Apoptosis/Tumor Suppressors/Cell Death, Cell Biology, Costimulatory Molecules, Immunology, Innate Immunity, Neuroscience, Neuroscience Cell Markers
<b>Molecular Family</b>	Toll Like Receptors
<b>Antigen References</b>	<ol style="list-style-type: none"><li>1. Zagórska A, <i>et al.</i> 2014. <i>Nat. Immunol.</i> 15:920.</li><li>2. Toda S, <i>et al.</i> 2014. <i>Blood</i> 123:3963.</li><li>3. Chung WS, <i>et al.</i> 2013. <i>Nature</i> 504:394.</li><li>4. Carrera Silva EA, <i>et al.</i> 2013. <i>Immunity</i> 39:160.</li><li>5. Yi Z, <i>et al.</i> 2009. <i>Blood</i> 114:3191.</li></ol>
<b>Gene ID</b>	<a href="#">17289</a>

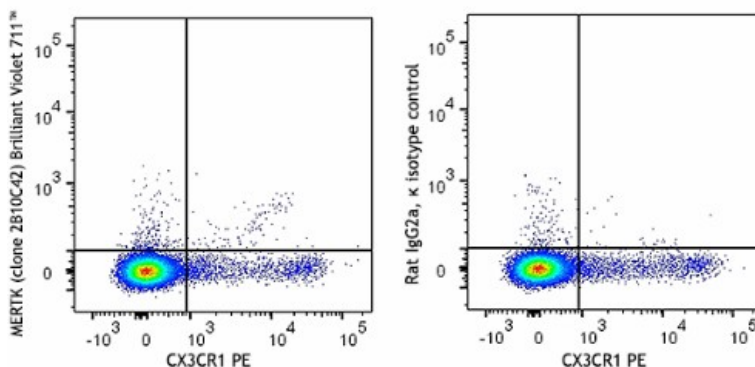
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-mouse MERTK (Mer), PE anti-mouse MERTK (Mer), FITC anti-mouse MERTK (Mer), APC anti-mouse MERTK (Mer), Brilliant Violet 421™ anti-mouse MERTK (Mer), TotalSeq™-C0565 anti-mouse MERTK (Mer), APC/Cyanine7 anti-mouse MERTK (Mer), PE/Cyanine7 anti-mouse MERTK (Mer), PE/Dazzle™ 594 anti-mouse MERTK (Mer), Brilliant Violet 711™ anti-mouse MERTK (Mer), Brilliant Violet 605™ anti-mouse MERTK (Mer), TotalSeq™-B0565 anti-mouse MERTK (Mer), KIRAVIA Blue 520™ anti-mouse MERTK (Mer) Antibody

## Product Data



C57BL/6 mouse splenocytes were stained with CX3CR1 PE and MERTK (Mer) (clone 2B10C42) Brilliant Violet 711™ (left) or rat IgG2a, κ Brilliant Violet 711™ isotype control (right).

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