

Brilliant Violet 605™ anti-mouse MERTK (Mer) Antibody

Catalog# / Size	151517 / 50 µg
Clone	2B10C42
Regulatory Status	RUO
Other Names	Mer, Eyk, Nyk, nmf12
Isotype	Rat IgG2a, κ
Description	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

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse MERTK extracellular domain
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605™ under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	<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 ≤ 0.25 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 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 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 605™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</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>
Excitation Laser	Violet Laser (405 nm)
RRID	AB_2876506 (BioLegend Cat. No. 151517)

Antigen Details

Structure	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.
Distribution	Macrophages, monocytes, and dendritic cells.
Function	Regulates TLR signaling, efferocytosis, phagocytosis, cell survival, and macrophage migration. Inhibits production of inflammatory cytokines.
Interaction	Grb2, LimD4, and Vav1.
Ligand/Receptor	LGALS3, TUB, TULP1, and GAS6.
Cell Type	Dendritic cells, Macrophages, Monocytes
Biology Area	Apoptosis/Tumor Suppressors/Cell Death, Cell Biology, Costimulatory Molecules, Immunology, Innate Immunity, Neuroscience, Neuroscience Cell Markers
Molecular Family	Toll Like Receptors
Antigen References	<ol style="list-style-type: none">1. Zagórska A, <i>et al.</i> 2014. <i>Nat. Immunol.</i> 15:920.2. Toda S, <i>et al.</i> 2014. <i>Blood</i> 123:3963.3. Chung WS, <i>et al.</i> 2013. <i>Nature</i> 504:394.4. Carrera Silva EA, <i>et al.</i> 2013. <i>Immunity</i> 39:160.5. Yi Z, <i>et al.</i> 2009. <i>Blood</i> 114:3191.
Gene ID	17289

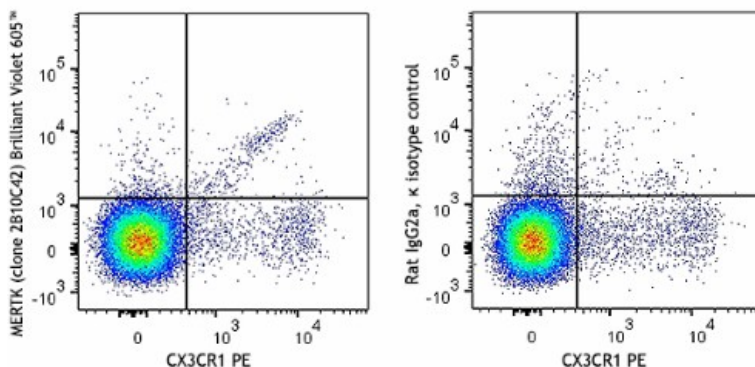
Related Protocols

[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 605™ (left) or rat IgG2a, κ Brilliant Violet 605™ isotype control (right).

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