

## PerCP/Cyanine5.5 anti-mouse MERTK (Mer) Antibody

<b>Catalog# / Size</b>	151529 / 25 µg 151530 / 100 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
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 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>	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.  * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>RRID</b>	AB_3675001 (BioLegend Cat. No. 151529) AB_3675001 (BioLegend Cat. No. 151530)

### Antigen Details

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<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>

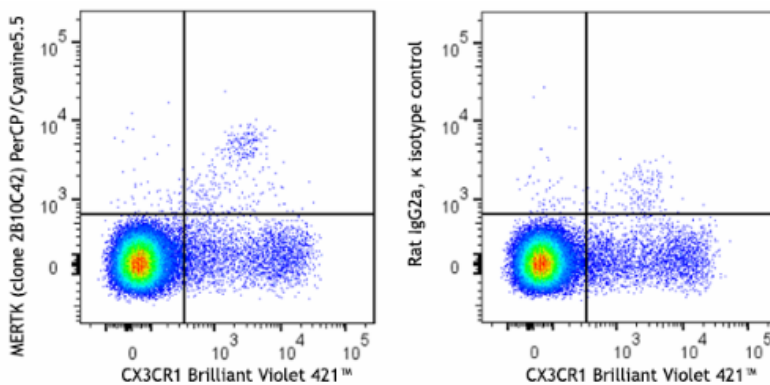
## Related Protocols

- [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, TotalSeq™-A0565 anti-mouse MERTK (Mer), PerCP/Cyanine5.5 anti-mouse MERTK (Mer)

## Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse CX3CR1 (clone SA011F11) Brilliant Violet 421™ and anti-mouse MERTK (Mer) (clone 2B10C42) PerCP/Cyanine5.5 (left) or rat IgG2a, κ PerCP/Cyanine5.5 isotype control (right).

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