

## FITC anti-mouse MERTK (Mer) Antibody

<b>Catalog# / Size</b>	151503 / 25 µg 151504 / 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

---

<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 FITC under optimal conditions.
<b>Concentration</b>	0.5 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.
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>Product Citations</b>	<ol style="list-style-type: none"><li>1. Aegerter H, <i>et al.</i> 2020. Nat Immunol. 0.975694444. <a href="#">PubMed</a></li><li>2. Zhu B, <i>et al.</i> 2021. Immunity. 54(6):1200-1218.e9. <a href="#">PubMed</a></li><li>3. Zhang J, <i>et al.</i> 2020. Cell Metabolism. 31(6):1136-1153. <a href="#">PubMed</a></li></ol>
<b>RRID</b>	AB_2617034 (BioLegend Cat. No. 151503) AB_2617035 (BioLegend Cat. No. 151504)

### 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.

**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**

1. Zagórska A, *et al.* 2014. *Nat. Immunol.* 15:920.
2. Toda S, *et al.* 2014. *Blood* 123:3963.
3. Chung WS, *et al.* 2013. *Nature* 504:394.
4. Carrera Silva EA, *et al.* 2013. *Immunity* 39:160.
5. Yi Z, *et al.* 2009. *Blood* 114:3191.

**Gene ID**

[17289](#)

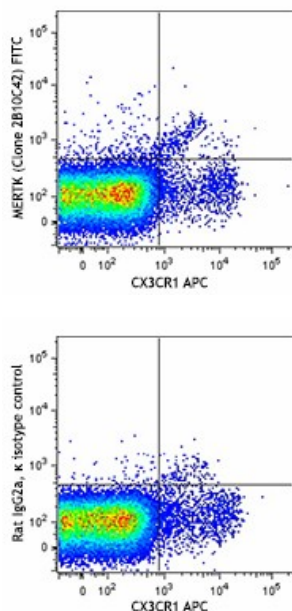
**Related Protocols**

[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 APC and MERTK (clone 2B10C42) FITC (top) or rat IgG2a, κ FITC isotype control (bottom).

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biolegend.com/ordering#license](http://www.biolegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all

applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 [www.biolegend.com](http://www.biolegend.com)  
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587