

FITC anti-mouse MERTK (Mer) Antibody

Catalog# / Size	151503 / 25 µg 151504 / 100 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

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.
Preparation	The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions.
Concentration	0.5 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	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.
Excitation Laser	Blue Laser (488 nm)
Product Citations	<ol style="list-style-type: none">1. Aegerter H, <i>et al.</i> 2020. Nat Immunol. 0.975694444. PubMed2. Zhu B, <i>et al.</i> 2021. Immunity. 54(6):1200-1218.e9. PubMed3. Zhang J, <i>et al.</i> 2020. Cell Metabolism. 31(6):1136-1153. PubMed
RRID	AB_2617034 (BioLegend Cat. No. 151503) AB_2617035 (BioLegend Cat. No. 151504)

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

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](#)

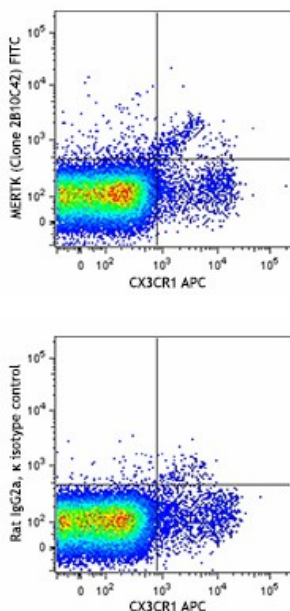
Related Protocols

[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).

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