

APC anti-human MERTK Antibody

Catalog# / Size	367611 / 25 tests 367612 / 100 tests
Clone	590H11G1E3
Regulatory Status	RUO
Other Names	C-Mer Proto-Oncogene Tyrosine Kinase, c-mer, Proto-Oncogene C-Mer, MER Receptor Tyrosine Kinase, STK Kinase, Receptor Tyrosine Kinase MerTK, Tyrosine-Protein Kinase Mer, MER, RP38, c-Eyk, Tyro12
Isotype	Mouse IgG1, κ
Description	MERTK plays a role in the retinal pigment epithelium as a regulator of rod outer segments fragments phagocytosis. MERTK also plays a role in the inhibition of Toll-like receptor-mediated innate immune responses through the activation of STAT1. Upregulation of MERTK seems to also promote the survival of certain cancer cells, such as t(1;19)-positive acute lymphoblastic leukemias (ALL). MERTK also has a role in cellular migration, as MERTK KO macrophages demonstrate cytoskeletal disruptions that impacts its shape and directional migration. Melanoma cells express high levels of MERTK, which makes this molecule an attractive therapeutic target.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	MERTK extracellular domain/Fc fusion.
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 APC under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
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 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
Excitation Laser	Red Laser (633 nm)
Application References	1. Rogers AE, <i>et al.</i> 2012. <i>Oncogene</i> 31:4171.
(PubMed link indicates BioLegend citation)	
RRID	AB_2687288 (BioLegend Cat. No. 367611) AB_2687289 (BioLegend Cat. No. 367612)

Antigen Details

Structure	Transmembrane protein with two fibronectin type-III domains, two Ig-like C2-type domains, and one tyrosine kinase domain.
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Distribution	Macrophages, monocytes, and dendritic cells.
Function	TLR regulation, efferocytosis, phagocytosis regulation, cell survival, and macrophage migration.
Interaction	GRB2, PLCG2, and TNK2.
Ligand/Receptor	LGALS3, TUB, TULP1, and GAS6.
Cell Type	Dendritic cells, Macrophages, Monocytes
Biology Area	Apoptosis/Tumor Suppressors/Cell Death, Cell Biology, Cell Motility/Cytoskeleton/Structure, Costimulatory Molecules, Immunology, Innate Immunity, Neuroscience, Neuroscience Cell Markers
Molecular Family	Protein Kinases/Phosphatase, Toll Like Receptors
Antigen References	<ol style="list-style-type: none"> Schlegel J, <i>et al.</i> 2013. <i>J. Clin. Invest.</i> 123:2257. Chen J, <i>et al.</i> 1997. <i>Oncogene</i> 14:2033. Yefimova MG, <i>et al.</i> 2013. <i>Autophagy</i> 9:653. Zhang W, <i>et al.</i> 2013. <i>J. Med. Chem.</i> 56:9693. Lee YJ, <i>et al.</i> 2012. <i>J. Leuko. Biol.</i> 91:921. Krause S, <i>et al.</i> 2015. <i>Blood</i> 125:820. Tang Y, <i>et al.</i> 2015. <i>PLoS One</i> 10:e0117787.
Gene ID	10461

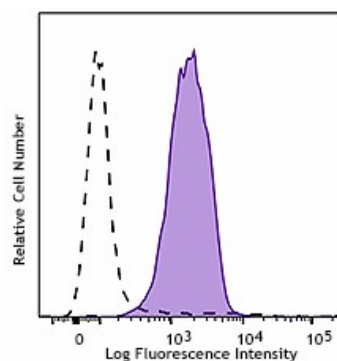
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human MERTK, Brilliant Violet 421™ anti-human MERTK, Alexa Fluor® 647 anti-human MERTK, PE anti-human MERTK, APC anti-human MERTK, PE/Cyanine7 anti-human MERTK, APC/Fire™ 750 anti-human MERTK, Biotin anti-human MERTK, TotalSeq™-A0423 anti-human MERTK, Brilliant Violet 711™ anti-human MERTK, PerCP/Cyanine5.5 anti-human MERTK, TotalSeq™-C0423 anti-human MERTK Antibody

Product Data



Human peripheral blood monocytes were stimulated and cultured with M-CSF for seven days and stained with human MERTK (clone 590H11G1E3) APC (filled histogram) or mouse IgG1, κ APC isotype control (open histogram).

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

