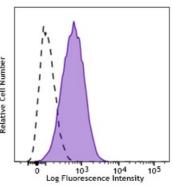
Brilliant Violet 711[™] anti-human MERTK

Catalog # / Size:	2438095 / 25 tests 2438100 / 100 tests	Г
Clone:	590H11G1E3	
lsotype:	Mouse IgG1, к	Human monocy culture then st (clone Violet mouse 711™ i histogr
Immunogen:	MERTK extracellular domain/Fc fusion.	
Reactivity:	Human	
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711 [™] under optimal conditions. The solution is free of unconjugated Brilliant Violet 711 [™] and unconjugated antibody.	
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).	
Concentration:	Lot-specific	



Human peripheral blood monocytes were stimulated and cultured with M-CSF (7 days) and then stained with human MERTK (clone 590H11G1E3) Brilliant Violet 711[™] (filled histogram), or mouse IgG1, κ Brilliant Violet 711[™] isotype control (open histogram). Data shown is gated on the total CD11b positive population.

Applications:

Applications: Flow Cytometry

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 μl per million cells in 100 μl staining volume or 5 μl per 100 μl of whole blood.

Brilliant Violet 711[™] excites at 405 nm and emits at 711 nm. The bandpass filter 710/50 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 711[™] is a trademark of Sirigen Group Ltd.

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.

Application1. Rogers AE, et al. 2012. Oncogene 31:4171.References:

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com **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.

Antigen 1. Schlegel J, et al. 2013. J. Clin. Invest. 123:2257.

References: 2. Chen J, *et al.* 1997. *Oncogene* 14:2033.

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- 5. Lee YJ, et al. 2012. J. Leuko. Biol. 91:921.
- 6. Krause S, *et al.* 2015. *Blood* 125:820.
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