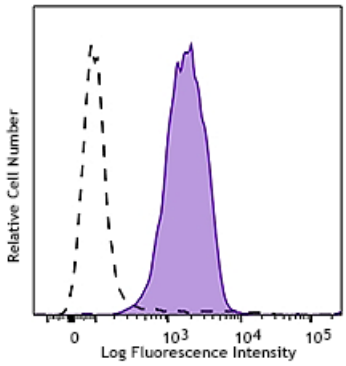
SONY

Product Data Sheet

APC anti-human MERTK

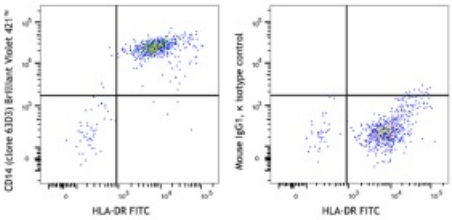
Catalog # / Size:	2438060 / 100 tests 2438055 / 25 tests
Clone:	590H11G1E3
Isotype:	Mouse IgG1, κ
Immunogen:	MERTK extracellular domain/Fc fusion.
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Workshop Number:	HCDM listed
Concentration:	Lot-specific



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).

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 or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	Additional reported applications (for the relevant formats) include: immunohistochemistry and fluorescence microscopy.



Human peripheral blood monocytes were stained with HLA-DR FITC and Brilliant Violet 421™ anti-human CD14 (clone 63D3) (left) or Brilliant Violet 421™ mouse IgG1, κ isotype control (right).

Application References:

1. Rogers AE, *et al.* 2012. *Oncogene* 31:4171.

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 References:

1. Schlegel J, *et al.* 2013. *J. Clin. Invest.* 123:2257.
2. Chen J, *et al.* 1997. *Oncogene* 14:2033.
3. Yefimova MG, *et al.* 2013. *Autophagy* 9:653.
4. Zhang W, *et al.* 2013. *J. Med. Chem.* 56:9693.
5. Lee YJ, *et al.* 2012. *J. Leuko. Biol.* 91:921.
6. Krause S, *et al.* 2015. *Blood* 125:820.
7. Tang Y, *et al.* 2015. *PLoS One* 10:e0117787.

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.