SONY

Product Data Sheet

APC/Fire™ 750 anti-human MERTK

Catalog # / Size: 2438070 / 100 tests
2438065 / 25 tests

Clone: 590H11G1E3

Isotype: Mouse IgG1, κ

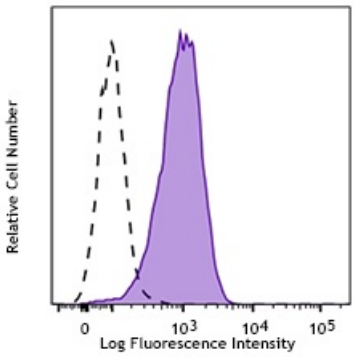
Immunogen: MERTK extracellular domain/Fc fusion.

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

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/Fire™ 750 (filled histogram) or mouse IgG1, κ APC/Fire™ 750 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 in 100 µl staining volume or 5 µl per 100 µl of whole blood.

* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

Application References:

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

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.

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