

Brilliant Violet 421™ anti-human MERTK

Catalog # / Size: 2438020 / 100 tests
2438015 / 25 tests

Clone: 590H11G1E3

Isotype: Mouse IgG1, κ

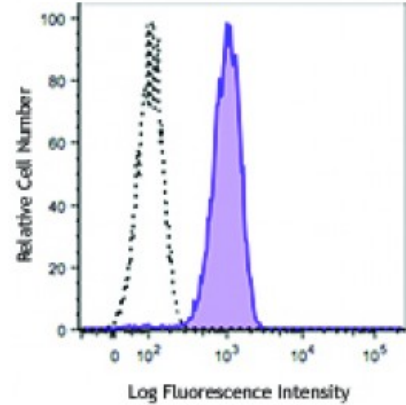
Immunogen: MERTK extracellular domain/Fc fusion.

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ 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 for seven days then stained with human MERTK (clone 590H11G1E3) Brilliant Violet 421™ (filled histogram) or mouse IgG1, κ Brilliant Violet 421™ isotype control (dotted 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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.

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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.*