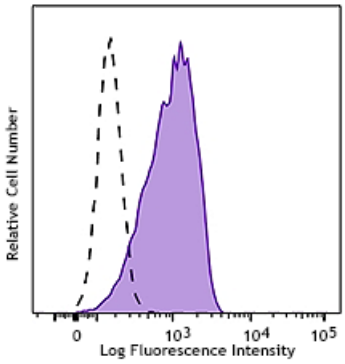
SONY

Product Data Sheet

Biotin anti-human MERTK

Catalog # / Size:	2438080 / 100 µg
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 biotin under optimal conditions. The solution is free of unconjugated biotin.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5 mg/ml



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

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 ≤ 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application 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.*

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.*