SONY

Product Data Sheet

Brilliant Violet 711™ anti-mouse MERTK (Mer)

Catalog # / Size: 1357575 / 50 µg

Clone: 2B10C42

Isotype: Rat IgG2a, κ

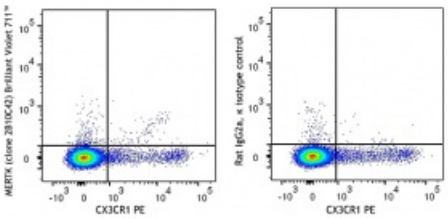
Immunogen: Mouse MERTK extracellular domain

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 711™ under optimal conditions.

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

Concentration: 0.2 mg/mL



C57BL/6 mouse splenocytes were stained with CX3CR1 PE and MERTK (Mer) (clone 2B10C42) Brilliant Violet 711™ (left) or rat IgG2a, κ Brilliant Violet 711™ isotype control (right).

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 ≤ 0.25 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.

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.

Description: MerTK (Mer) is a member of the TAM (TYRO3/AXL/MerTK) family. It is a transmembrane protein with two fibronectin type-III domains, two Ig-like C2-type domains, and one tyrosine kinase domain. MerTK is mainly expressed by macrophages, monocytes, and dendritic cells. Its ligands are LGALS3, TUB, TULP1, and GAS6. MerTK is involved in the regulation of TLR signaling, efferocytosis, phagocytosis, cell survival, macrophage migration, and the inhibition of inflammation.

Antigen References:
1. Zagorska A, *et al.* 2014. *Nat. Immunol.* 15:920.
2. Toda S, *et al.* 2014. *Blood* 123:3963.
3. Chung WS, *et al.* 2013. *Nature* 504:394.
4. Carrera Silva EA, *et al.* 2013. *Immunity* 39:160.
5. Yi Z, *et al.* 2009. *Blood* 114:3191.