Brilliant Violet 421™ anti-mouse TLT-2 Antibody

Catalog# / Size	136605 / 50 µg
Clone	MIH47
Regulatory Status	RUO
Other Names	TREML2, TREM-like transcript 2
Isotype	Rat IgG2a, κ
Description	Triggering receptor expressed on myeloid cell-like transcript 2 (TLT-2, TREML2) is a type I transmembrane protein in TREM family. It consists of a single extracellular Ig-like domain of the V-type, a transmembrane domain, and a short cytoplasmic domain. TLT-2 is expressed on myeloid , B cells , and macrophages. It was also found to express on CD8+ T cells and activated CD4+ T cells. It regulates innate immune response based on its expression profile, costimulates the activation of T cells. Transduction of TLT-2 into T cells resulted in enhanced IL-2 and IFN-gamma production. It was reported that B3-H7 is a receptor of TLT-2. Blockade of the B7-H3/ TLT-2 pathway with monoclonal antibodies against B7-H3 or TLT-2 efficiently inhibited hypersensitivity response. Further studies are needed to confirm the ligand.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse TLT-2 Ig fusion protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze**.
Application	FC - Quality tested
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 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. Learn more about Brilliant Violet™. This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.
Excitation Laser	Violet Laser (405 nm)

Application References **(PubMed link indicates BioLegend citation)**	1. Hashiguchi M, *et al.* 2008. *Proc. Nat. Acad. Sci. U. S. A.* 105(30):10495
RRID	AB_3674988 (BioLegend Cat. No. 136605)

Antigen Details

Structure	A type I transmembrane protein in TREM family, consists of a single extracellular Ig-like domain of the V-type, a transmembrane domain, and a short cytoplasmic domain.
Distribution	Expressed on myeloid cells, B cells, macrophages, $CD8^+$ T cells, and activated $CD4^+$ T cells.
Function	Regulate innate immune response, IL-2, IFN-gamma production, and hypersensitivity response.
Cell Type	B cells, Macrophages, T cells
Biology Area	Immunology, Innate Immunity
Antigen References	1. King RG, *et al.* 2006. *J. Immunol.* 176:6012 2. Ford JW, *et al.* 2009. *Curr Opin Immunol.* 21(1):38 3. Leitner J, *et al.* 2009. *Eur. J. Immunol.* 39(7):1754
Gene ID	328833

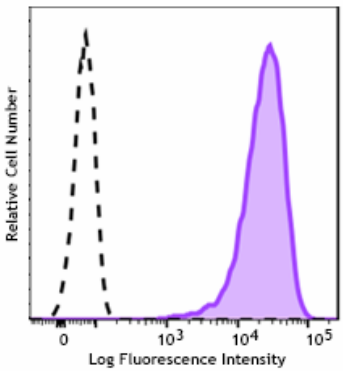
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

Other Formats

PE anti-mouse TLT-2, Brilliant Violet 421™ anti-mouse TLT-2

Product Data



Mouse TLT-2-transfected cells were stained with anti-mouse TLT-2 (clone MIH47) Brilliant Violet 421™ (filled histogram) or rat IgG2a, κ Brilliant Violet 421™ isotype control (open histogram).

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