

Purified anti-mouse Trem-like 4 (Trem14) Antibody

Catalog# / Size	143302 / 100 µg
Clone	16E5
Regulatory Status	RUO
Other Names	Trem-14, TREM like transcript 4, triggering receptor expressed on myeloid cells-like 4
Isotype	Rat IgG1, κ
Description	Trem-like 4, a type I transmembrane protein and a member of the TREM family, consists of a single extracellular Ig-like domain of the V-type, a transmembrane domain, and a short cytoplasmic domain. Trem-like 4 is expressed on macrophages in the spleen, and dendritic cells, especially CD8+ dendritic cells. It is proposed to regulate the immune response based on its expression profile. It has been reported that B7-H3 is a receptor and that the soluble form of Trem14 has a binding affinity to late apoptotic or necrotic cells.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Extracellular domain of recombinant mouse Trem-like 4
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested IHC-F, IP, WB - Reported in the literature, not verified in house
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 Notes	Additional reported applications (for the relevant formats) include: immunofluorescent staining, immunoprecipitation, and Western blotting ¹ .
Application References	1. Hemmi H, <i>et al.</i> 2009. <i>J. Immunol.</i> 182:1278. (WB)
(PubMed link indicates BioLegend citation)	
RRID	AB_11149169 (BioLegend Cat. No. 143302)

Antigen Details

Structure	Type I transmembrane protein; member of the TREM family
Distribution	CD8+ dendritic cells, dendritic cell subsets, macrophages in the spleen, myeloid cells
Function	Regulates innate immune response and homeostasis
Interaction	Associates with DAP12; binds late apoptotic cells/necrotic cells

Cell Type	B cells, Dendritic cells, Macrophages
Biology Area	Immunology, Innate Immunity
Molecular Family	MHC Antigens
Antigen References	1. Ford JW and McVicar DW. 2009. <i>Curr. Opin. Immunol.</i> 21:38. 2. Hemmi H, et al. 2009. <i>J. Immunol.</i> 182:1278.
Gene ID	224840

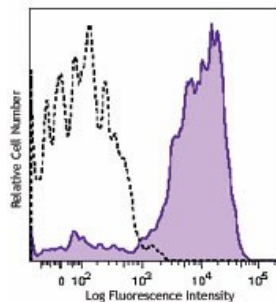
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse Trem-like 4 (Trem14), PE anti-mouse Trem-like 4 (Trem14)

Product Data



C57BL/6 mouse splenocytes were stained with Trem14 (clone 16E5) PE (filled histogram) or rat IgG1, κ PE isotype control (open histogram). Data shown was from gated on CD8+CD11c+ cells.

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