

DESCRIPTION

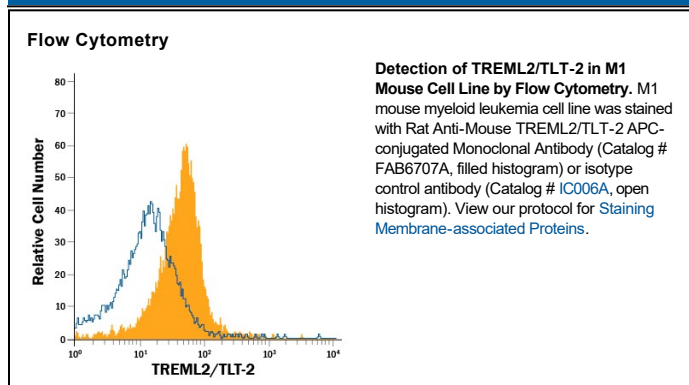
Species Reactivity	Mouse
Specificity	Detects mouse TREML2/TLT-2 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse (rm) TREM-1, -2, -2b, -3, -4, rmTREML1/TLT-1, rmTREML4/TLT-4, or recombinant human (rh) NKp44 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 656906
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse TREML2/TLT-2 His25-Ala270 Accession # Q2LA85
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Flow Cytometry	10 µL/10 ⁶ cells	See Below

DATA



PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage **Protect from light. Do not freeze.**

- 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

TREML2 (Triggering Receptor Expressed on Myeloid cells-like 2), also known as TLT2, is a 42-45 kDa member of the TREM family of immune modulatory proteins. In mouse, it is a 306 amino acid (aa) type I transmembrane glycoprotein that contains a 246 aa extracellular domain (ECD). TREML2 is expressed by CD5⁺ B-1 type B cells, marginal zone IgM^{hi} IgD^{lo} B-2 type B cells, macrophages, microglia and neutrophils; it is absent from T cells and monocytes (although human monocytes strongly express TREML2). While it is unclear what, or if, a protein ligand for TREML2 exists, it is known to bind phosphatidylserine and initiate efferocytosis (phagocytosis of apoptotic cells). TREML2 expression is promoted by TLR3 ligation, and once expressed and "activated", it appears to potentiate downstream effects that arise from independent GPCR activation, such as inflammatory mediator release and chemotaxis following chemokine binding to CXC receptors. Over aa 25-270 (the ECD), mouse TREML2 shares 78% and 52% aa sequence identity with rat and human TREML2, respectively. With respect to mouse TREML2 ECD similarity to mouse TREM2 and TREML1 ECD, there is less than 20% aa sequence identity for each.