

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse TREML4/TLT-4 in ELISAs.
Source	Monoclonal Rat IgG _{2A} Clone # 817914
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse TREML4/TLT-4 Gly25-Pro195 Accession # Q3LRV9
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2 mg/mL 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	0.25-1 µg/10 ⁶ cells	CD8 ⁺ CD11c ⁺ mouse splenocytes

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. <ul style="list-style-type: none"> ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

TREML4 (Triggering Receptor Expressed on Myeloid cells-Like 4), also known as TLT4, is a 53-55 kDa member of the Ig superfamily. It is likely expressed by leukocytes, and based on its structure, may act as an activating receptor. Mature mouse TREML4 is a type I transmembrane (TM) glycoprotein that is 235 amino acids (aa) in length. It contains a 171 aa extracellular region (aa 29-199) with a V-type Ig-like domain (aa 29-122); the TM segment contains one Lys residue. There is one splice variant that shows a deletion of aa 21-24, a segment that lies in the putative signal sequence. Rodent and human TREML4 are highly divergent, and thus over aa 25-195, mouse TREML4 shares 78% aa sequence identity with rat TREML4, but only 52% aa sequence identity with human TREML4.

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