

DESCRIPTION

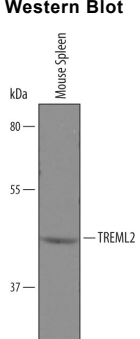
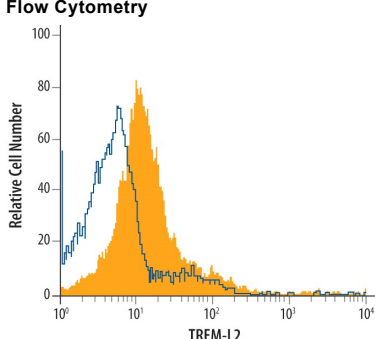
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| Species Reactivity | Mouse |
| Specificity | Detects mouse TREML2/TLT-2 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant mouse (rm) TREML1, rmTREML4, rmTREM1, rmTREM2b, rmTREM3, rmTREM4, and recombinant human TREM2 is observed. |
| Source | Polyclonal Sheep IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | Chinese hamster ovary cell line CHO-derived recombinant mouse TREML2/TLT-2 His25-Ala270 Accession # Q2LA85 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

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 |
|-----------------------|--|---------------|
| Western Blot | 1 µg/mL | See Below |
| Flow Cytometry | 2.5 µg/10 ⁶ cells | See Below |
| CyTOF-ready | Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation. | |

DATA

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| <p>Western Blot</p>  <p>Detection of Mouse TREML2/TLT-2 by Western Blot. Western blot shows lysates of mouse spleen tissue. PVDF Membrane was probed with 1 µg/mL of Mouse TREML2/TLT-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6354) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A band was detected for TREML2/TLT-2 at approximately 45 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.</p> | <p>Flow Cytometry</p>  <p>Detection of TREML2/TLT-2 in M1 Mouse Cell Line by Flow Cytometry. M1 mouse myeloid leukemia cell line was stained with Mouse TREML2/TLT-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6354, filled histogram) or isotype control antibody (Catalog # 5-001-A, open histogram), followed by NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # NL010).</p> |
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PREPARATION AND STORAGE

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| Reconstitution | Sterile PBS to a final concentration of 0.2 mg/mL. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

Mouse Trem-like transcript 2 protein (TLT-2; also TREML2) is a 34 kDa (predicted for unglycosylated) type I transmembrane cell surface receptor and member of the Trem family of receptor proteins. Mouse TLT-2 is synthesized as a 329 amino acid (aa) precursor that contains a 24 aa signal sequence, a 246 aa extracellular domain (ECD), a 21 aa transmembrane segment, and a 38 aa cytoplasmic tail. Within the ECD are an Ig-like V-type domain (aa 25-126) and one potential site for N-linked glycosylation. Mature mouse TLT-2 shares 49% aa sequence identity with mature human TLT-2. Cell surface expression of TLT-2 is seen for most of the B and myeloid cell lines. TLT-2 is also expressed constitutively on CD8+ T cells.