**DESCRIPTION**

**Species Reactivity**
Human

**Specificity**
Detects human TREML1/TLT-1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 5% cross-reactivity with recombinant mouse TREML1 is observed.

**Source**
Polyclonal Goat IgG

**Purification**
Antigen Affinity-purified

**Immunogen**
Mouse myeloma cell line NS0-derived recombinant human TREML1/TLT-1
Gln16-Ser160
Accession #: Q86YW5

**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.*

<table>
<thead>
<tr>
<th>Application</th>
<th>Recommended Concentration</th>
<th>Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Blot</td>
<td>0.1 μg/mL</td>
<td>Recombinant Human TREML1/TLT-1</td>
</tr>
<tr>
<td>Flow Cytometry</td>
<td>0.25 μg/10⁶ cells</td>
<td>Human peripheral blood platelets</td>
</tr>
<tr>
<td>CyTOF-ready</td>
<td></td>
<td>Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.</td>
</tr>
</tbody>
</table>

**PREPARATION AND STORAGE**

**Reconstitution**
Reconstitute at 0.2 mg/mL in sterile PBS.

**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.

- 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**

TREML1 is a type I transmembrane protein that differs from TREM in the cytoplasmic region by having two ITIMs (Immunoreceptor Tyrosine-based Inhibition Motif). A splice variant lacking ITIMs in its cytoplasmic domain also exists. TREML1 is found only in platelets and megakaryocytes. The extracellular region of human and mouse TREML1 share 75% amino acid sequence identity.