

**DESCRIPTION**

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse TCAM-1 in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse TCAM-1 Ala18-Gly481 Accession # AAH50746
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.1 µg/mL	Recombinant Mouse TCAM-1 (Catalog # 3546-TC)

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

Mouse TCAM-1 (Testicular cell adhesion molecule-1) is a 59 kDa (predicted) type I transmembrane protein that is a member of the intracellular adhesion molecule (ICAM) family belonging to the immunoglobulin (Ig) superfamily (1). It is synthesized from a 548 amino acid (aa) precursor that contains an 18 aa signal sequence, a 465 aa extracellular region, a 25 aa transmembrane region, and a short cytoplasmic tail of 40 aa. The extracellular region contains five Ig domains and six potential N-linked glycosylation sites (1). Mouse TCAM-1 is 89% identical to rat TCAM-1. Expression of TCAM-1 is detected in the embryo on day 17 and in adult testis, and correlates with the presence of pachytene spermatocytes and spermatids in mouse testis development (1).

**References:**

1. Skatani, S. *et al.* (2000) *Genome* **43**:957.