Mouse TREML4/TLT-4 Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: AF5500

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse TREML4/TLT-4 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant mouse (rm) TREM1, rmTREM2b, and rmTREM3 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse TREML4/TLT-4 Ser25-Val195 Accession # NP_001029094
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.

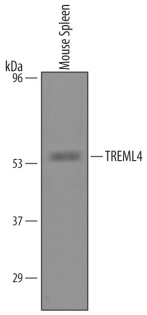
APPLICATIONS

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

DATA

Western Blot



Detection of Mouse TREML4/TLT-4 by Western Blot. Western blot shows lysates of mouse spleen tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Mouse TREML4/TLT-4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5500) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for TREML4/TLT-4 at approximately 55 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

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

TREML4 (Triggering receptor expressed on myeloid cells-like 4; also 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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