

Anti-TREML1 Picoband Antibody

Catalog # ABO10337

Product Information

Application	WB, E
Primary Accession	Q86YW5
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Trem-like transcript 1 protein(TREML1) detection. Tested with WB, ELISA in Human.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	340205
Other Names	Trem-like transcript 1 protein, TLT-1, Triggering receptor expressed on myeloid cells-like protein 1, TREML1, TLT1
Calculated MW	32679
Application Details	ELISA , 0.1-0.5 µg/ml, Human, - Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Cell membrane ; Single-pass type I membrane protein . Cytoplasm . Sequestered in cytoplasmic vesicles in resting platelets (PubMed:15100151). Transported to the cell surface after stimulation by thrombin (PubMed:15100151). Soluble fragments can be released into the serum by proteolysis (PubMed:16505478).
Tissue Specificity	Detected in platelets, monocytic leukemia and in T-cell leukemia. .
Source	Eukaryota
Protein Name	Trem-like transcript 1 protein
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E. coli-derived human TREML1 recombinant protein (Position: Q16-P162). Human TREML1 shares 69.3% amino acid (aa) sequence identity with mouse TREML1.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Protein Information

Name	TREML1
Synonyms	TLT1
Function	Cell surface receptor that may play a role in the innate and adaptive immune response.
Cellular Location	Cell membrane; Single-pass type I membrane protein Cytoplasm. Note=Sequestered in cytoplasmic vesicles in resting platelets (PubMed:15100151) Transported to the cell surface after stimulation by thrombin (PubMed:15100151). Soluble fragments can be released into the serum by proteolysis (PubMed:16505478)
Tissue Location	Detected in platelets, monocytic leukemia and in T- cell leukemia.

Background

Trem-like transcript 1 protein is a protein that in humans is encoded by the TREML1 gene. The protein encoded by this gene is a member of the TNF-receptor superfamily, and contains an intracellular death domain. This receptor can be activated by tumor necrosis factor-related apoptosis inducing ligand (TNFSF10/TRAIL/APO-2L), and transduces an apoptosis signal. Studies with FADD-deficient mice suggested that FADD, a death domain containing adaptor protein, is required for the apoptosis mediated by this protein. Two transcript variants encoding different isoforms and one non-coding transcript have been found for this gene.

Images



Figure 1. Western blot analysis of TREML1 using anti-TREML1 antibody (ABO10337). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. lane 1: recombinant human TREML1 protein 1ng After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TREML1 antigen affinity purified polyclonal antibody (Catalog # ABO10337) at 0.5 µg/mL overnight at 4 °C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for TREML1 at approximately 21KD. The expected band size for TREML1 is at 18KD.