



Recombinant Protein Technical Manual

Recombinant Human TREML1/TLT Protein (His Tag)

RPES1315

Product Data:

Product SKU: RPES1315

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q86YW5

Protein Information:

Molecular Mass: 16.9 kDa

AP Molecular Mass: 20 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Trem-Like Transcript 1 Protein; TLT; Triggering Receptor Expressed on Myeloid Cells-Like Protein 1; TREML1; TLT1

Immunogen Information:

Sequence: Gln16-Pro162

Background:

Triggering Receptor Expressed on Myeloid Cells-Like Protein 1 (TREM1) is a single-pass type I membrane protein. TREM1 precursor contains a 15 amino acid signal peptide, a 147 amino acid extracellular domain with an Ig-like V-type (immunoglobulin-like) domain, and 128 amino acid cytoplasmic domain. It can be expressed exclusively in platelets and megakaryocytes (MKs). It is a cell surface receptor that may play a role in the innate and adaptive immune response. TREM1 is sequestered in cytoplasmic vesicles in resting platelets. TREM1 is transported to the cell surface after stimulation by thrombin. Soluble fragments can be released into the serum by proteolysis. The phosphorylated TREM1 can interact with PTPN6 and PTPN11. TREM1 may participate in maintaining vascular hemostasis and regulating coagulation and inflammation at sites of injury.