



Recombinant Protein Technical Manual

Recombinant Mouse TREM1 Protein (His Tag)

RPES3509

Product Data:

Product SKU: RPES3509

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: Q9JKE2

Protein Information:

Molecular Mass: 20.9 kDa

AP Molecular Mass: 38 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by 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 PBS, pH7.4.

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

Application:

Synonyms: Triggering receptor expressed on myeloid cells 1; TREM; CD354; Trem1

Immunogen Information:

Sequence: Ala21-Ser202

Background:

Triggering Receptor Expressed on Myeloid Cells 1 (TREM) is a transmembrane protein with a single Ig-like domain. TREM associates with the adapter protein, DAP12, to deliver an activating signal. TREM is expressed on blood neutrophils and monocytes, and the expression is up-regulated by bacterial LPS. TREM is expressed at high levels on neutrophils of patients with microbial sepsis and in mice with a TREM/Fc fusion protein protected mice against LPS-induced shock. It stimulates neutrophil and monocyte-mediated inflammatory responses. Triggers release of pro-inflammatory chemokines and cytokines, as well as increased surface expression of cell activation markers. TREM is amplifier of inflammatory responses that are triggered by bacterial and fungal infections and are a crucial mediator of septic shock.