Recombinant Mouse TREM2 Protein

Catalog No.: RP01558

Sequence Information

Species
Mouse

Gene ID
83433

Swiss Prot
Q99NH8-1

Tags
C-His

Synonyms
TREM-2,Trem2a,Trem2b,Trem2c, TREM2

Product Information

Source
HEK293 cells

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
17.65 kDa

Observed MW
25-40 kDa

Endotoxin
Please contact us for more information.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Triggering Receptor Expressed on Myeloid cells 2 (TREM2)is a 35 kDa type I transmembrane member of the TREM family and Ig superfamily. Mature human TREM2 consists of a 156 amino acid (aa) extracellular domain (ECD) with one V-type Ig-like domain, a 21 aa transmembrane (TM) domain, and a 35 aa cytoplasmic tail. Soluble forms of the TREM2 ECD are generated by alternative splicing or proteolytic cleavage, and the cytoplasmic domain can be liberated by gamma-Secretase mediated intramembrane cleavage. A positively charged lysine within the transmembrane segment allows association with the signal adapter protein, DAP12 and inhibition of macrophage activation. TREM2 is expressed on macrophages, immature myeloid dendritic cells, osteoclasts, microglia, and adipocytes.It promotes the differentiation and function of osteoclasts, the production of inflammatory cytokines by adipocytes, insulin resistance, and the phagocytic clearance of bacteria

Basic Information

Description
Recombinant Mouse TREM2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu19-Ser171) of mouse TREM-2 (Accession #NP_112544.1) fused with a 6×His tag at the C-terminus.

Activity
Measured by its binding ability in a functional ELISA. Immobilized Mouse TREM-2 Protein at 1 μg/mL (100 μL/well) can bind TREM-2 Rabbit pAb with a linear range of 0.06-11.7 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

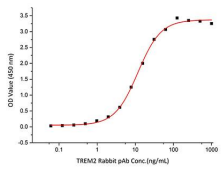
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

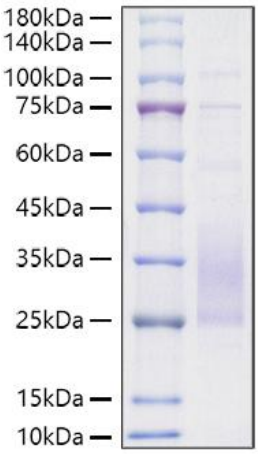
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Validation Data



Immobilized Mouse TREM-2 Protein at 1 μg/mL (100 μL/well) can bind TREM-2 Rabbit pAb with a linear range of 0.06-11.7 ng/mL



Recombinant Mouse TREM2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.