Recombinant Human TREM2 Protein

Catalog No.: RP00322

Sequence Information

Species
Human

Gene ID
54209

Swiss Prot
Q9NZC2-1

Tags
C-hFc

Synonyms
CD274; PDL1; PD-L1; PD-L1B7 homolog 1;B7-H; B7H1; B7-H1; PDCD1L1; PDCD1LG1

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
44.2 kDa

Observed MW
50-70 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22 μm filtered solution in PBS, 100 mM Arginine (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

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

TREM-2 (Triggering Receptor Expressed on Myeloid cells-2) is a 35 kDa type I transmembrane member of the TREM family and Ig superfamily. Mature human TREM-2? 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. TREM-2 forms a receptor signaling complex with TYROBP which mediates signaling and cell activation following ligand binding (PubMed:10799849). Acts as a receptor for amyloid-beta protein 42, a cleavage product of the amyloid-beta precursor protein APP, and mediates its uptake and degradation by microglia.

Basic Information

Description
Recombinant Human TREM2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (His19-Ser174) of Human TREM2 (Accession #Q9NZC2-1) fused with a C-hFc tag at the C-terminus.

Activity

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℃

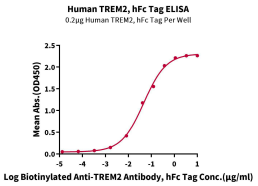
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

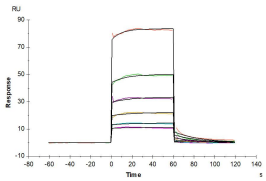
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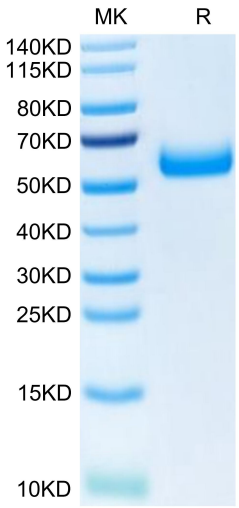
Validation Data



Immobilized Human TREM2, hFc Tag at 2 μg/mL (100 μL/Well) on the plate. Dose response curve for Biotinylated Anti-TREM2 Antibody, hFc Tag with the EC_{50} of 46.9 ng/mL determined by ELISA (QC Test).



Human TREM2, hFc Tag captured on CM5 Chip via Protein A can bind Human APOE3, His Tag with an affinity constant of 1.21 μM as determined in SPR assay (Biacore T200).



Recombinant Human TREM2 Protein was determined by Tris-Bis PAGE under reducing conditions.