

Human TREM2 Protein

Cat. No. TRM-HM102



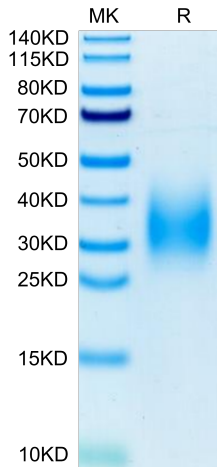
Description	
Source	Recombinant Human TREM2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains His19-Ser174.
Accession	Q9NZC2-1
Molecular Weight	The protein has a predicted MW of 18.5 kDa. Due to glycosylation, the protein migrates to 28-40 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-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.	

Assay Data

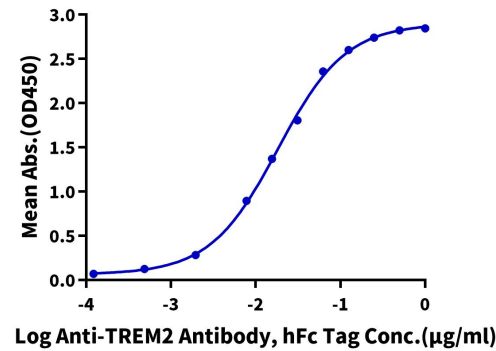
Bis-Tris PAGE



Human TREM2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Human TREM2, His Tag ELISA
0.2µg Human TREM2, His Tag Per Well



Immobilized Human TREM2, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Anti-TREM2 Antibody, hFc Tag with the EC50 of 18.3ng/ml determined by ELISA (QC Test).

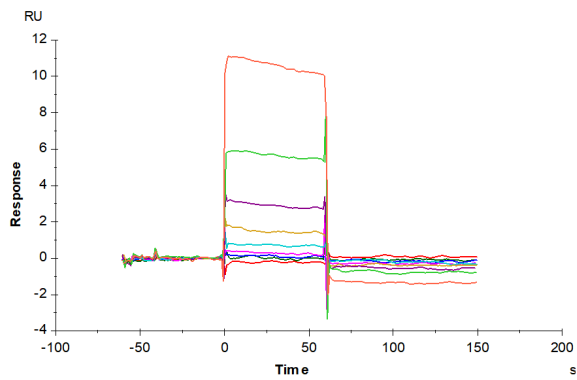
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SPR Data



Human APOE3, hFc Tag captured on CM5 Chip via Protein A can bind Human TREM2, His Tag with an affinity constant of 20.24 μ M as determined in SPR assay (Biacore T200).