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TREM2 Protein (AA 19-174) (Fc Tag)

3 Images



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Overview

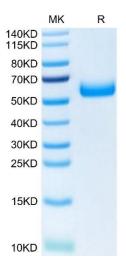
Quantity:	100 μg
Target:	TREM2
Protein Characteristics:	AA 19-174
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TREM2 protein is labelled with Fc Tag.

Product Details

Purpose:	Human TREM2 Protein
Sequence:	His19-Ser174
Characteristics:	Recombinant Human TREM2 Protein is expressed from HEK293 with hFc tag at the C-Terminus.It contains His19-Ser174.
Purity:	> 95 % as determined by Tris-Bis PAGE
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human TREM2, hFc Tag at $2\mu g/ml$ ($100\mu l/Well$) on the plate. Dose response curve for Biotinylated Anti-TREM2 Antibody, hFc Tag with the EC50 of $25ng/ml$ determined by ELISA. The affinity constant of $1.004~\mu M$ as determined in SPR assay (Biacore T200). See testing image for detail.

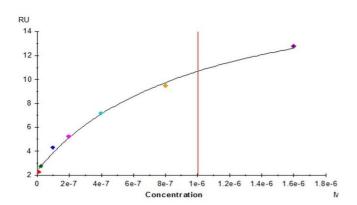
Target Details

TREM2 (TREM2 Products)
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.
44.2 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result
For Research Use only
Lyophilized
Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is
recommended. Dissolve the lyophilized protein in distilled water.
Lyophilized from 0.22µm filtered solution in PBS, 100 mM Arginine (pH 7.4). Normally 8 %
trehalose is added as protectant before lyophilization.
-20 °C,-80 °C
-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after
reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into
smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
12 months



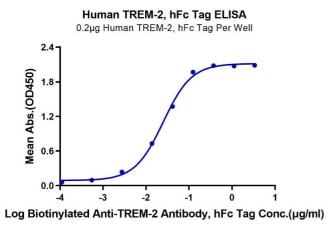
SDS-PAGE

Image 1. Human TREM2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 %.



Surface Plasmon Resonance

Image 2. Human TREM2, hFc Tag captured on CM5 Chip via Protein A can bind Human APOE, His Tag with an affinity constant of 1.004 μ M as determined in SPR assay (Biacore T200).



ELISA

Image 3. Immobilized Human TREM2, hFc Tag at $2 \mu g/mL$ (100 $\mu L/Well$) on the plate. Dose response curve for Biotinylated Anti-TREM2 Antibody, hFc Tag with the EC50 of 25 ng/mL determined by ELISA.