

Cynomolgus TREM2 Protein; His Tag

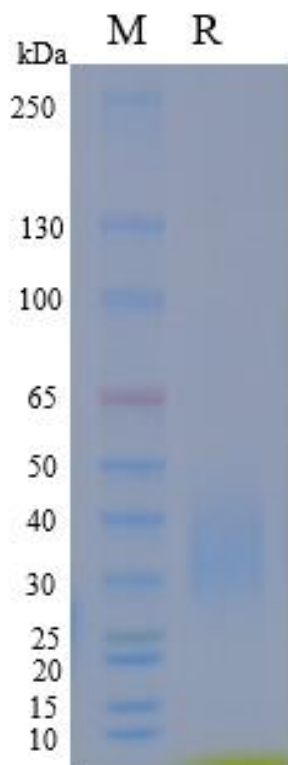
Product Information

Product Name	Cynomolgus TREM2 Protein; His Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-88454RP-100 / 100 μg GM-88454RP-1000 / 1 mg

Protein Information

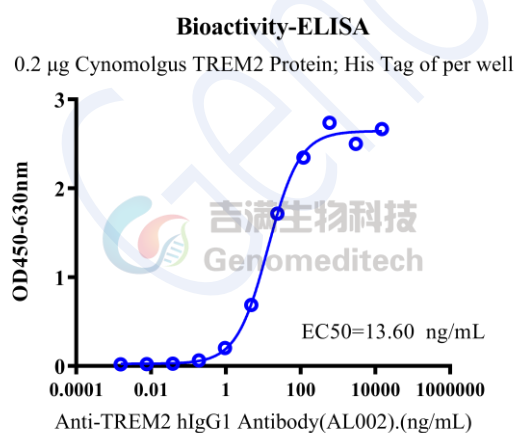
Alternative Names	Triggering receptor expressed on myeloid cells 2
Source	Cynomolgus TREM2 Protein; His Tag (GM-88454RP) is expressed from human 293 cells (HEK-293). It contains AA His 19 - Ser 174 (Accession # XP_015304909.3). This protein carries a His tag at the C-terminus.
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	18.3 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	TREM2 protein (Triggering Receptor Expressed on Myeloid Cells 2) is a membrane receptor of the immunoglobulin superfamily, playing a key role in immune regulation, microglial function, and lipid metabolism. TREM2 mutations or dysregulation are closely linked to Alzheimer's disease, Nasu-Hakola disease, and other neurodegenerative disorders, where impaired microglial phagocytosis and enhanced neuroinflammation accelerate disease progression. Current TREM2-targeted strategies under investigation include agonistic antibodies and gene therapies designed to restore microglial function, enhance plaque clearance, and modulate neuroinflammation. In summary, TREM2 is critical in neurodegeneration and immune regulation, with significant implications for understanding disease mechanisms, developing targeted therapies, and assessing patient prognosis.

SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA



Cynomolgus TREM2 Protein; His Tag (Catalog # GM-88454RP) was immobilized at 2 μ g/ml (100 μ L/well).
Increasing concentrations of Anti-TREM2 hIgG1
Antibody(AL002) (Catalog # GM-88284AB) were added.