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Mouse TREM2 Protein; His Tag

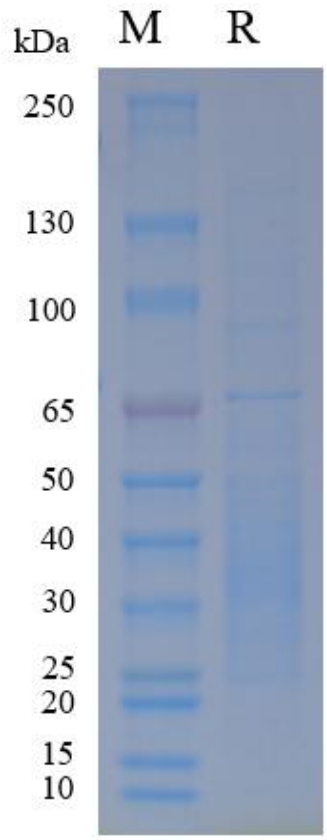
Product Information

Product Name	Mouse TREM2 Protein; His Tag
Storage temp	Store at ≤ -70℃, 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-88455RP-100 / 100 μg** **GM-88455RP-1000 / 1 mg**

Protein Information

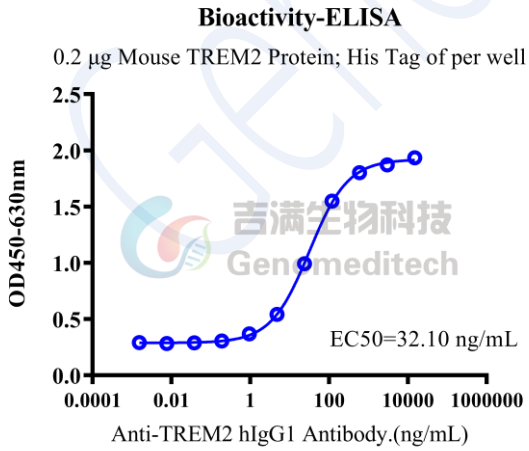
Alternative Names	Triggering receptor expressed on myeloid cells 2 , TREM-2
Source	Mouse TREM2 Protein; His Tag (GM-88455RP) is expressed from human 293 cells (HEK-293). It contains AA Leu 19 - Ser 171 (Accession # Q99NH8-1). This protein carries a His tag at the C-terminus.
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/μg, determined by LAL gel clotting assay
Predicted Mol Mass	17.6 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	TREM2 protein, full name Triggering Receptor Expressed on Myeloid Cells 2, is an immune receptor that belongs to the immunoglobulin superfamily. It is encoded by the TREM2 gene and is a protein associated with the human immune system. TREM2 protein was initially discovered on dendritic cells and macrophages and later detected in various myeloid cell subsets, including microglia in the central nervous system, osteoclasts, and tissue-resident macrophages. TREM2 protein regulates the survival, proliferation, and function of myeloid cells by binding to its ligands, which include bacterial products, lipids, lipoproteins, and apoptotic cells, in partnership with the adaptor protein DAP12. Myeloid cells such as macrophages, microglia, dendritic cells, and osteoclasts are important types of immune cells with critical functions in innate immunity, phagocytosis, inflammation resolution, and tissue homeostasis, making them central members of the immune system. Research indicates that TREM2 protein plays a significant role in promoting phagocytosis, enhancing anti-inflammatory responses, modulating microglial function, and maintaining tissue integrity. Additionally, the expression of TREM2 protein is associated with neurodegenerative diseases (such as Alzheimer's disease), demyelinating disorders, bone diseases, and cancer immunity, making it a potential target for immunotherapy.

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



Mouse TREM2 Protein; His Tag (Catalog # GM-88455RP) was immobilized at 2 μg/ml (100 μL/well). Increasing concentrations of Anti-TREM2 hIgG1 Antibody (Catalog # GM-30244AB) were added.

Version:4.0