Genomeditech (Shanghai) Co.,Ltd.
Order: 021-68455258/50432826/50432825
Toll-free: 400 627 9288
Email: service@genomeditech.com

Human TREM1 Protein; His Tag

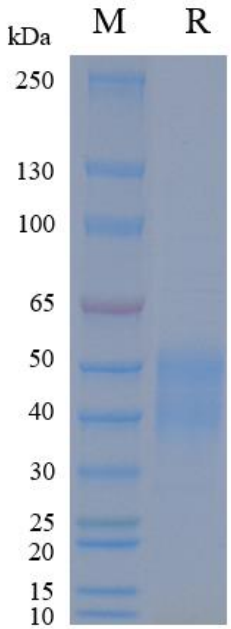
Product Information

Product Name	Human TREM1 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-88422RP-100 / 100 μg** **GM-88422RP-1000 / 1 mg**

Protein Information

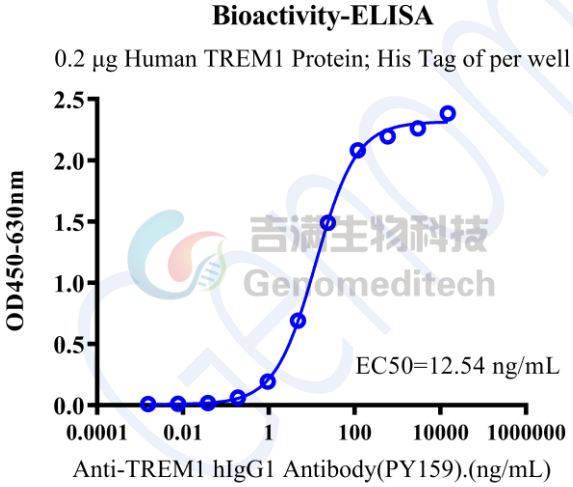
Alternative Names	TREM1, CD354
Source	Human TREM1 Protein; His Tag (GM-88422RP) is expressed from human 293 cells (HEK-293). It contains AA Ala 21 - Arg 200 (Accession # Q9NP99-1). This protein carries a His tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/μg, determined by LAL gel clotting assay
Predicted Mol Mass	21.1 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	TREM-1 (Triggering Receptor Expressed on Myeloid cells-1) is a cell-surface Ig superfamily receptor mainly on neutrophils and monocytes/macrophages. It amplifies inflammatory responses by boosting proinflammatory cytokines/chemokines after activation. It acts as an amplifier of signals from pattern recognition receptors (e.g., TLRs) and contributes to host defense as well as inflammatory/septic pathogenesis. TREM-1 is modulated by the adaptor DAP12, which contains an ITAM for downstream signaling. Ligand engagement crosslinks TREM-1 with DAP12, phosphorylating the ITAM via Src kinases. This recruits Syk, triggering a cascade that activates NF-κB and MAPKs (ERK, p38, JNK). This leads to transcription of TNF-α, IL-1β, IL-6, and chemokines. TREM-1 signaling can amplify TLR signals and is shaped by cross-talk with other receptors, as well as regulation by soluble TREM-1 and inhibitory receptors to limit excessive inflammation.

SDS-PAGE

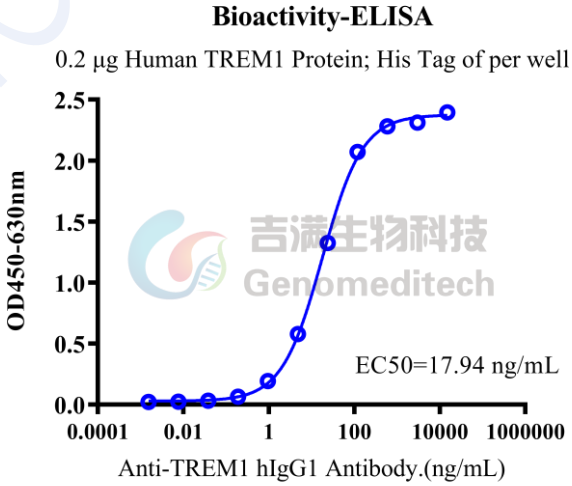


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Human TREM1 Protein; His Tag (Catalog # GM-88422RP) was immobilized at 2 μg/ml (100 μL/well). Increasing concentrations of Anti-TREM1 hIgG1 Antibody(PY159) (Catalog # GM-88438AB) were added.



Human TREM1 Protein; His Tag (Catalog # GM-88422RP) was immobilized at 2 μg/ml (100 μL/well). Increasing concentrations of Anti-TREM1 hIgG1 Antibody (Catalog # GM-26835AB) were added.

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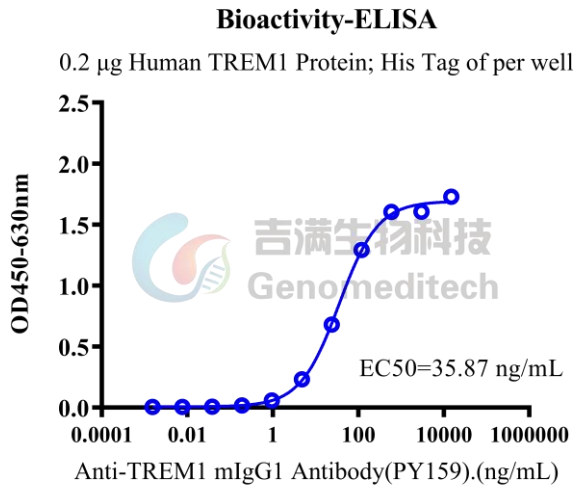
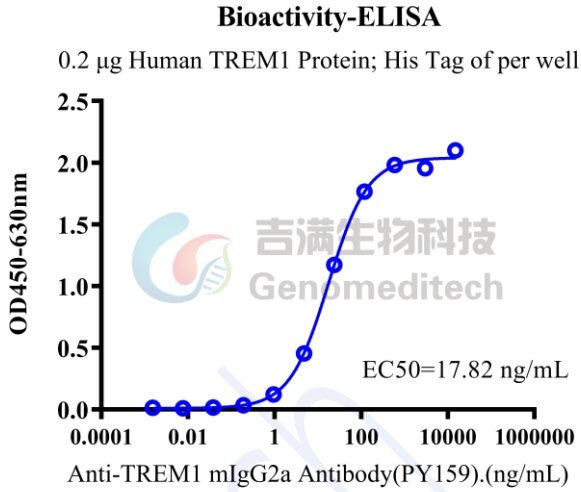
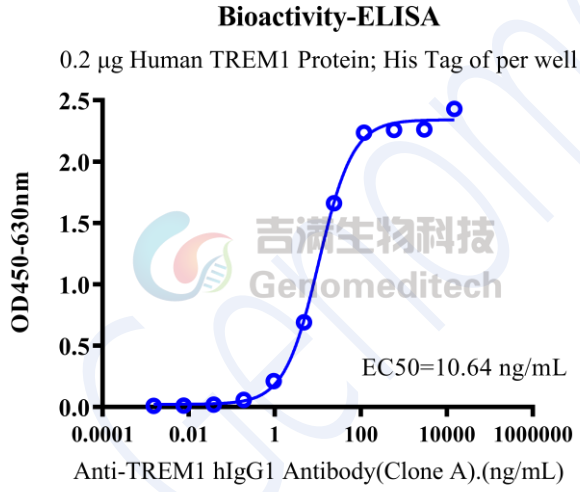


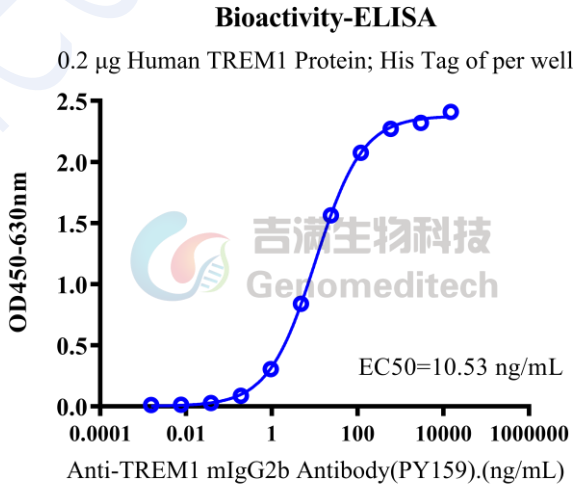
Human TREM1 Protein; His Tag (Catalog # GM-88422RP) was immobilized at 2 μg/ml (100 μL/well). Increasing concentrations of Anti-TREM1 mIgG1 Antibody(PY159) (Catalog # GM-88439AB) were added.



Human TREM1 Protein; His Tag (Catalog # GM-88422RP) was immobilized at 2 μg/ml (100 μL/well). Increasing concentrations of Anti-TREM1 mIgG2a Antibody(PY159) (Catalog # GM-88440AB) were added.



Human TREM1 Protein; His Tag (Catalog # GM-88422RP) was immobilized at 2 μg/ml (100 μL/well). Increasing concentrations of Anti-TREM1 hIgG1 Antibody(Clone A) (Catalog # GM-88441AB) were added.



Human TREM1 Protein; His Tag (Catalog # GM-88422RP) was immobilized at 2 μg/ml (100 μL/well). Increasing concentrations of Anti-TREM1 mIgG2b Antibody(PY159) (Catalog # GM-88442AB) were added.