

Anti-TREM1 hIgG1 Antibody(PY159)

Product information

GM-88438AB-10	10 µg
GM-88438AB-100	100 µg
GM-88438AB-1000	1 mg

Antibody Information

Species Reactivity	Human; Cynomolgus
Clone	PY159
Source/Isotype	Human IgG1, Kappa
Application	Bioactivity-ELISA
Target	Detects TREM1
Gene	TREM1
Other Names	CD354, TREM-1
Gene ID	54210 (Human); Cynomolgus (102129811)
Background	<p>TREM-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.</p> <p>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.</p>
Storage	Store at 2-8°C short term (1-2 weeks).Store at ≤ -20°C long term. Avoid repeated freeze-thaw.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH7.2-7.4.
Endotoxin	< 1 EU/mg, determined by LAL gel clotting assay

Data Examples

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.

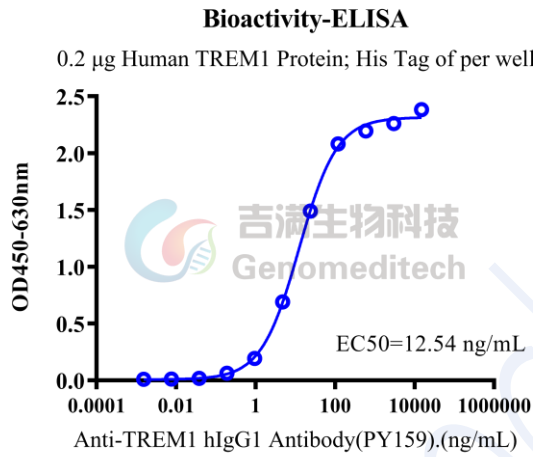


Fig. ELISA

Bioactivity-ELISA

Cynomolgus TREM1 Protein; His Tag (Catalog # GM-88424RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-TREM1 hIgG1 Antibody (PY159) (Catalog # GM-88438AB) were added.

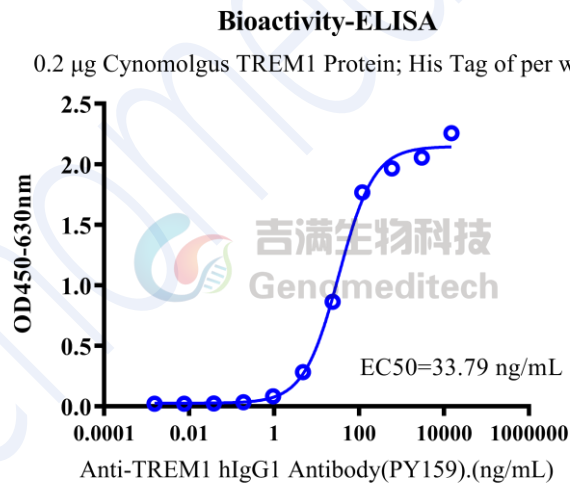


Fig. ELISA