

Anti-TREM2 hIgG1 Antibody(AL002)

Product information

GM-88284AB-10	10 µg
GM-88284AB-100	100 µg
GM-88284AB-1000	1 mg

Antibody Information

Species Reactivity	Human
Clone	AL002
Source/Isotype	Human IgG1(KDEL),Kappa
Application	Activation assay; Flow Cytometry
Target	Detects TREM2
Gene	TREM2
Other Names	PLOSL2; TREM-2; Trem2a; Trem2b; Trem2c
Gene ID	54209 (human)
Background	Trem2(Triggering Receptor Expressed on Myeloid Cells 2) gene is located on human genome 6q21.1, encoding a transmembrane Receptor protein belonging to immunoglobulin superfamily, which is mainly Expressed on the surface of Myeloid Cells such as microglia and macrophages, in particular, it plays a key role in specific organs such as brain, bone and adipose tissue. This gene binds to adaptor protein DAP12(DNAX-activating protein of 12 kDa) through transmembrane domain to form a signaling complex, which activates downstream Syk kinase and PI3K pathways, and then regulates cell phagocytosis, inflammation suppression and metabolic processes.
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, pH 7.2-7.4.
Endotoxin	< 1 EU/mg, determined by LAL gel clotting assay

Data Examples

Activation assay

Anti-TREM2 hIgG1 Antibody(AL002) (Catalog # GM-88284AB) stimulated Luminescence of H_PD-1 Reporter Jurkat Cell Line (Catalog # GM-C07928) binded with H_FCGR2B(CD32B) CHO-K1 Cell Line (Catalog #GM-C09520). EC50 for this effect is 0.09902 µg/mL.

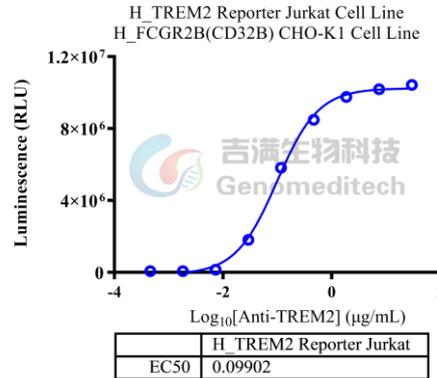


Fig. assay

Flow cytometry

H_TREM2 Reporter Jurkat Cell Line (Catalog # GM-C44356) was stained with Anti-TREM2 hIgG1 Antibody(AL002) (Catalog # GM-88284AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.

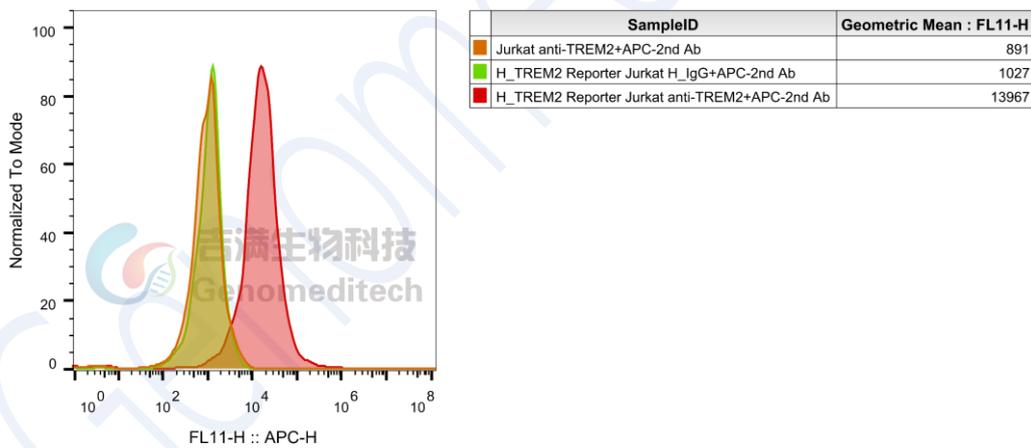


Fig. FACS