

Genomeditech (Shanghai) Co.,Ltd. Order: 021-68455258/50432826/50432825

Toll-free: 400 627 9288

Email: service@genomeditech.com

Anti-TREM2 hlgG1 Antibody

Product information

GM-30244AB-10 10 μg GM-30244AB-100 100 μg GM-30244AB-1000 1 mg

Antibody Information

Species Reactivity Human; Cynomolgus; Mouse

Clone /

Source/Isotype Monoclonal Human IgG1 /k

Application Flow Cytometry
Specificity Detects TREM2

Gene TERM2

Other Names PLOSL2; TREM-2; Trem2a; Trem2b; Trem2c

Gene ID 54209

Background The triggering receptor expressed on myeloid cells 2 (TREM2) protein is

an innate immune receptor that is expressed on the cell surface of microglia, macrophages, and immature dendritic cells. The TREM2 receptor is a single-pass type I membrane glycoprotein that consists of an extracellular immunoglobulin-like domain, a transmembrane domain, and a cytoplasmic tail. TREM2 interacts with the tyrosine kinase-binding protein DAP12 to form a receptor-signaling complex. In addition, amyloid plaque formation induces expression of TREM2 and amyloid phagocytosis. Loss-of-function mutations in the corresponding TREM2 or DAP12 genes can result in Nasu-Hakola disease, a rare form of progressive presenile dementia that results from polycystic osseous lesions. TREM2 membrane shedding occurs by cleavage at the extracellular site between H157/S158 generating an N-terminal shedded fragment and a membrane bound C-terminal fragment. The immunoglobulin-like ectodomain (ECD) of TREM2 binds various ligands, including lipids, and the AD variant R47H has reduced affinity for apolipoproteins (e.g., APOE) or lipid ligands, suggesting that the increased LOAD risk reflects a partial loss of function (LOF) in lipid

recognition and/or lipid-induced signaling.

Storage Store at 2-8°C short term (1-2 weeks). Store at ≤ -20°C long term.Avoid

repeated freeze-thaw.

Formulation Phosphate-buffered solution, pH 7.2.

Endotoxin < 1 EU/mg, determined by LAL gel clotting assay

Version: 3.1 Revision Date: 12/29/2023

Genomeditech (Shanghai) Co.,Ltd. Order: 021-68455258/50432826/50432825

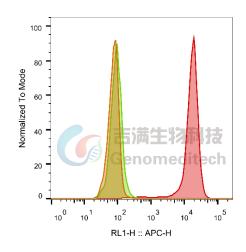
Toll-free: 400 627 9288

Email: service@genomeditech.com

Data Examples

Flow cytometry

Flag-H_TREM2 HEK-293 Cell Line (Catalog # GM-C22374) was stained with Anti-TREM2 hlgG1 Antibody (Catalog # GM-30244AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.

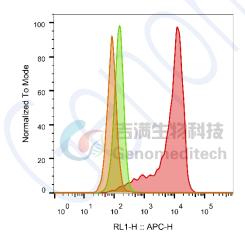


SampleID	Geometric Mean : RL1-H
HEK-293 anti-H_TREM2+APC-2nd Ab	75.3
HEK-293 H_TREM2 H_IgG+APC-2nd Ab	91.2
HEK-293 H_TREM2 anti-H_TREM2+APC-2nd Ab	15034

Fig 1. FACS

Flow cytometry

Cynomolgus_TREM2 HEK-293 Cell Line (Catalog # GM-C15499) was stained with Anti-TREM2 hIgG1 Antibody (Catalog # GM-30244AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.



SampleID	Geometric Mean : RL1-H
HEK-293 anti-H_TREM2+APC-2nd Ab	84.0
HEK-293 Cyno_TREM2 H_lgG+APC-2nd Ab	144
HEK-293 Cyno_TREM2 anti-H_TREM2+APC-2nd Ab	6612

Fig 2. FACS



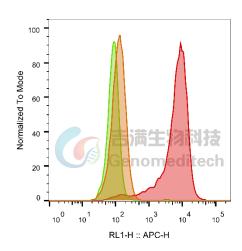
Genomeditech (Shanghai) Co.,Ltd. Order: 021-68455258/50432826/50432825

Toll-free: 400 627 9288

Email: service@genomeditech.com

Flow cytometry

Mouse_TREM2 HEK-293 Cell Line (Catalog # GM-C15496) was stained with Anti-TREM2 hlgG1 Antibody (Catalog # GM-30244AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.



SampleID	Geometric Mean : RL1-H
HEK-293 anti-TREM2+APC-2nd Ab	127
HEK-293 M_TREM2 H_IgG+APC-2nd Ab	84.9
HEK-293 M_TREM2 anti-TREM2+APC-2nd Ab	5585

Fig 3. FACS