

Anti-H_TNFRSF1B(TNFR2) hIgG1 Antibody(UC2.3.8)

Product Information

GM-49245AB-10	10 µg
GM-49245AB-100	100 µg
GM-49245AB-1000	1 mg

Antibody Information

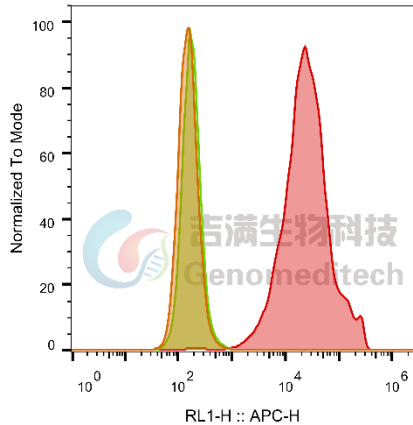
Species Reactivity	Human
Specificity	Detects human TNFRSF1B. It also detects cynomolgus TNFRSF1B.
Source/Isotype	Monoclonal human IgG1, κ
Other Names	p75; TBPII; TNFBR; CD120b; TNFR1B; TNFR80; TNF-R75; p75TNFR; TNF-R-II
Gene ID	7133(human), 102144224(cynomolgus)
Application	Flow cytometry: 1 µg-4 µg /1E6 cells; FC-Quality tested Binding activation: 14 pg/mL-15 µg/mL
Background	Tumor necrosis factor receptor superfamily member 1B (TNFRSF1B), also known as tumor necrosis factor receptor 2 (TNFR2) and CD120b, is one of two membrane receptors that binds tumor necrosis factor-alpha (TNFα). Like its counterpart, tumor necrosis factor receptor 1 (TNFR1), the extracellular region of TNFR2 consists of four cysteine-rich domains which allow for binding to TNFα. TNFR1 and TNFR2 possess different functions when bound to TNFα due to differences in their intracellular structures, such as TNFR2 lacking a death domain (DD). The protein encoded by this gene is a member of the tumor necrosis factor receptor superfamily, which also contains TNFRSF1A. This protein and TNF-receptor 1 form a heterocomplex that mediates the recruitment of two anti-apoptotic proteins, c-IAP1 and c-IAP2, which possess E3 ubiquitin ligase activity. The function of IAPs in TNF-receptor signalling is unknown, however, c-IAP1 is thought to potentiate TNF-induced apoptosis by the ubiquitination and degradation of TNF-receptor-associated factor 2 (TRAF2), which mediates anti-apoptotic signals. Knockout studies in mice also suggest a role of this protein in protecting neurons from apoptosis by stimulating antioxidative pathways.
Storage	Store at +4°C short term (1-2 weeks). Store at -20°C long term
Formulation	Phosphate-buffered solution, pH 7.2.

Version:2.1 Revision Date:10/10/2022

Data Examples

Flow cytometry

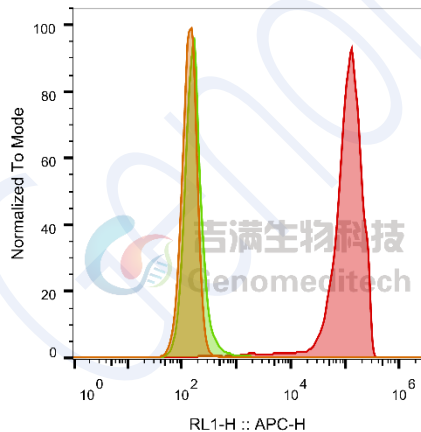
H_TNFRSF1B(TNFR2) HEK-293 Cell Line (Catalog # GM-C25237) was stained with Anti-H_TNFRSF1B(TNFR2) hlgG1 Antibody (Catalog # GM-49245AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.



SampleID	Geometric Mean : RL1-H
CHO-K1 anti-H_TNFRSF1B+APC-2nd Ab	155
CHO-K1 Cyno_TNFRSF1B H_IgG+APC-2nd Ab	180
CHO-K1 Cyno_TNFRSF1B anti-H_TNFRSF1B+APC-2nd Ab	23491

Flow cytometry

Cynomolgus_TNFRSF1B(TNFR2) CHO-K1 Cell Line (Catalog # GM-C25238) was stained with Anti-H_TNFRSF1B(TNFR2) hlgG1 Antibody (Catalog # GM-49245AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.



SampleID	Geometric Mean : RL1-H
HEK-293 anti-H_TNFRSF1B+APC-2nd Ab	139
HEK-293 H_TNFRSF1B H_IgG+APC-2nd Ab	171
HEK-293 H_TNFRSF1B anti-H_TNFRSF1B+APC-2nd Ab	98273

Binding activation

Serial dilutions of Anti-H_TNFRSF1B(TNFR2) hlgG1 Antibody (1:4 serial dilutions, from 15 µg/mL to 14 pg/mL) (Catalog # GM-49245AB) were added into H_TNFR2 Reporter Jurkat Cell Line (Catalog # GM-C25209). EC50 for this effect was 0.004173 µg/mL.

