

Anti-H_CD40L hIgG1 Antibody(dapirolizum)

Product information

GM-83977AB-10	10 µg
GM-83977AB-100	100 µg
GM-83977AB-1000	1 mg

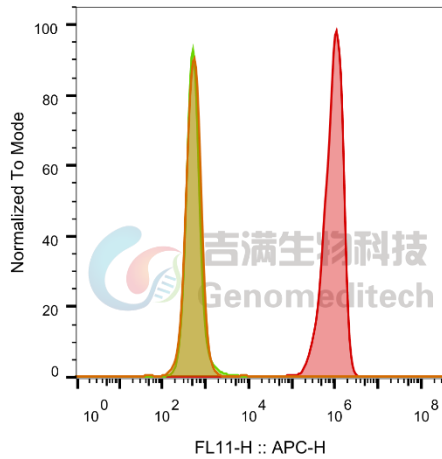
Antibody Information

Species Reactivity	Human; Cynomolgus
Clone	dapirolizum
Source/Isotype	Monoclonal human IgG1/k
Application	Flow cytometry; Block assay ;ELISA
Specificity	Detects CD40L
Gene	CD40L
Other Names	CD40LG,CD154,CD40L,HIGM1,IGM,IMD3,T-BAM,TNFSF5,TRAP,gp39.
Gene ID	P29965 (human); G7Q1T4 (cynomolgus)
Background	CD40 ligand (CD40LG) is a type II transmembrane glycoprotein belonging to the TNF superfamily. Initially discovered on the surface of CD4+ T cells following T cell receptor activation, CD40LG exists in both membrane-bound and soluble trimeric forms. CD40LG serves as the ligand for CD40, and its binding initiates signal transduction in cells expressing CD40LG. CD40LG is a differentiation antigen expressed on the surface of T cells. In the presence of cytokines, it stimulates B cell proliferation and the secretion of all immunoglobulin isotypes. CD40LG has been shown to induce cytokine production and tumor cell killing. It is also known by the aliases CD154, HIGM1, IGM, IMD3, T-BAM, TNFSF5, TRAP, and gp39.
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

Data Examples

Flow cytometry

H_CD40L HEK-293 Cell Line (Catalog # GM-C35531) was stained with Anti-H_CD40L hlgG1 Antibody(dapirolizum) (Catalog # GM-83977AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody .

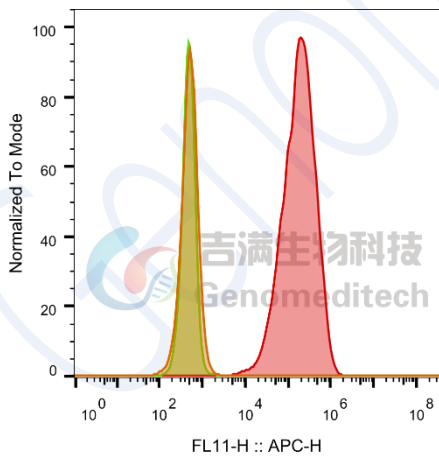


SampleID	Geometric Mean : FL11-H
HEK-293 anti-CD40L+APC-2nd Ab	531
HEK-293 H_CD40L H_IgG+APC-2nd Ab	545
HEK-293 H_CD40L anti-CD40L+APC-2nd Ab	8.88E5

Fig. FACS

Flow cytometry

Cynomolgus_CD40L CHO-K1 Cell Line (Catalog # GM-C35533) was stained with Anti-H_CD40L hlgG1 Antibody(dapirolizum) (Catalog # GM-83977AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody .



SampleID	Geometric Mean : FL11-H
CHO-K1 anti-CD40L+APC-2nd Ab	500
CHO-K1 Cyno_CD40L H_IgG+APC-2nd Ab	481
CHO-K1 Cyno_CD40L anti-CD40L+APC-2nd Ab	172658

Fig. FACS

Block assay

Anti-H_CD40L hlgG1 Antibody(dapirolizum) (Catalog # GM-83977AB) inhibits H_CD40(TNFRSF5) Reporter Jurkat Cell Line (Catalog # GM-C09520) Luminescence induced by Human CD40L. IC50 for this effect is 0.2649 µg/mL.

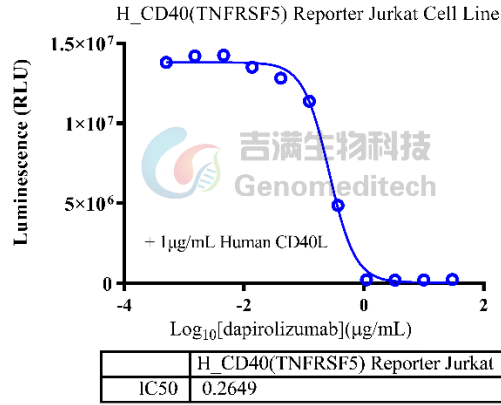


Fig. assay

Block assay

Anti-H_CD40L hlgG1 Antibody(dapirolizum) (Catalog # GM-83977AB) inhibits H_CD40(TNFRSF5) Reporter Jurkat Cell Line (Catalog # GM-C09520) Luminescence induced by H_CD40L CHO-K1 Cell Line (Catalog #GM-C09520). IC50 for this effect is 1.249 µg/mL.

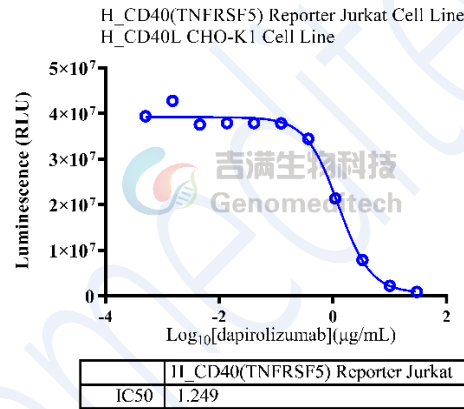


Fig. assay

Bioactivity-ELISA

Human CD40L Protein; His Tag (Catalog # GM-84919RP) was immobilized at 1 µg/ml (100 µL/well). Increasing concentrations of Anti-H_CD40L hlgG1 Antibody(dapirolizum) (Catalog # GM-83977AB) were added.

