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

Toll-free: 400 627 9288

Email: service@genomeditech.com

Anti-BTLA hlgG4 Antibody(22B3)

Product information

GM-50103AB-10 10 μg GM-50103AB-100 100 μg GM-50103AB-1000 1 mg

Antibody Information

Species Reactivity Human Clone 22B3

Source/Isotype Monoclonal human IgG4, κ Application Flow Cytometry; Block assay

Specificity Detects BTLA

Gene BTLA

Other Names BTLA1, CD272

Gene ID 151888

Background B- and T-lymphocyte attenuator or BTLA (also known as cluster of

differentiation 272 or CD272) is a protein that belongs to the CD28 immunoglobulin superfamily (IgSF) which is encoded by the BTLA gene located on the 3rd human chromosome. BTLA is a 289 amino acid long transmembrane glycoprotein. It consists of an extracellular domain, a transmembrane domain, and a cytoplasmic domain, similar in structure to PD-1 and CTLA-4. HVEM is the main ligand of BTLA which has inhibition and activation capacities. When a T cell is fully activated HVEM is internalized, and this allows BTLA to interact in a trans manner (with molecules on other cells). This enables other cells who express HVEM to regulate activated T cells. Treg cells express HVEM and can facilitate immune suppression through interaction with BTLA. Furthermore, the blockage of BTLA together with PD-1 can help reverting the state of

exhaustion.

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: 12/25/2023

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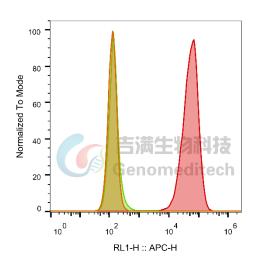
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Data Examples

Flow cytometry

The recommended usage range is $0.5-4~\mu g$ per test. H_BTLA CHO-K1 Cell Line (Catalog # GM-C19148) was stained with Anti-BTLA hlgG4 Antibody (Catalog # GM-50103AB) or isotype control antibody, followed by anti-Human IgG APC-conjugated Secondary Antibody.



SampleID	Geometric Mean : RL1-H
CHO-K1 anti-BTLA+APC-2nd-Ab	127
CHO-K1 H_BTLA H_lgG+APC-2nd-Ab	147
CHO-K1 H_BTLA anti-BTLA+APC-2nd-Ab	51227

Fig 1. FACS

Block assay

Anti-BTLA hlgG4 Antibody (Catalog # GM-50103AB) inhibits H_BTLA CHO-K1 Cell Line (Catalog # GM-C19148) Luminescence induced by H_HVEM Reporter Jurkat Cell Line (Catalog # GM-C25497). IC50 for this effect is 1.099 µg/mL.

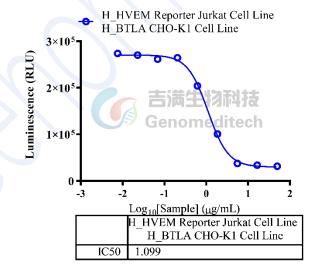


Fig 2. Assay