

Human BTLA Protein; His Tag

Product Information

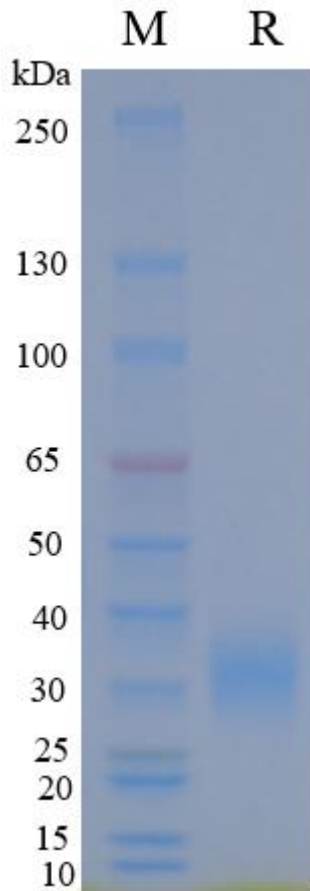
Product Name	Human BTLA Protein; His Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-88691RP-100 / 100 μg GM-88691RP-1000 / 1 mg

Protein Information

Alternative Names	CD272
Source	Human BTLA Protein; His Tag (GM-88691RP) is expressed from human 293 cells (HEK-293). It contains AA Lys 31 - Arg 157 (Accession # Q7Z6A9-1). This protein carries a His tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	15.6kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	BTLA protein, full name B and T Lymphocyte Attenuator, also known as CD272, is an important immune checkpoint receptor and a member of the immunoglobulin superfamily. BTLA protein plays a crucial role in regulating immune responses by binding to its ligand HVEM (Herpesvirus Entry Mediator, also known as TNFRSF14) on antigen-presenting cells and T cells, thereby modulating T cell activation, proliferation, and cytokine production, as well as maintaining immune tolerance and preventing autoimmune responses in normal physiological conditions. Currently, BTLA-targeted therapeutic strategies are under active preclinical and early-stage clinical investigation, including anti-BTLA monoclonal antibodies (e.g., JS-004/TAB004) that aim to restore antitumor immune responses by blocking the BTLA/HVEM signaling axis, reactivating exhausted T cells, and potentiating the efficacy of existing immunotherapies. In summary, BTLA protein plays a pivotal role in tumor immune evasion and cancer progression, and holds great significance for understanding tumor immunology, identifying novel immune checkpoint targets, developing next-generation immunotherapies, and evaluating patient prognosis in the era of precision immuno-oncology.

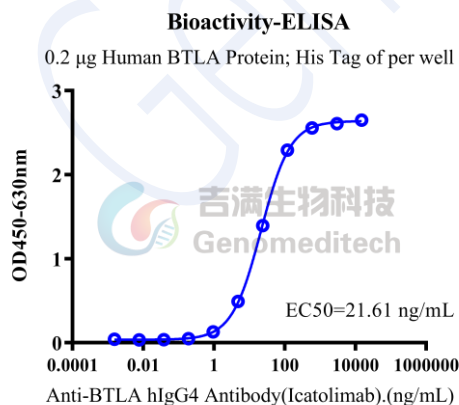
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SDS-PAGE

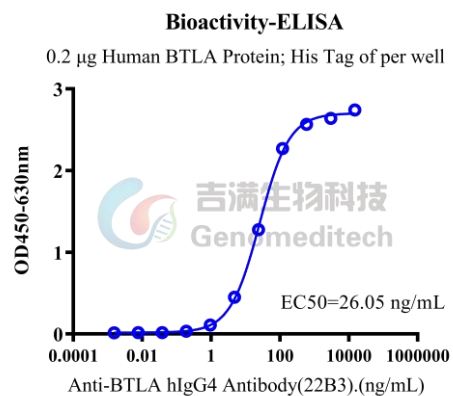


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Human BTLA Protein; His Tag (Catalog # GM-88691RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-BTLA hIgG4 Antibody (Icatolimab) (Catalog # GM-28675AB) were added.



Human BTLA Protein; His Tag (Catalog # GM-88691RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-BTLA hIgG4 Antibody (22B3) (Catalog # GM-50103AB) were added.

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