

BTLA/CD272 Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P78078
Synonyms:	CD272; BTLA; BTLA1; FLJ16065; MGC129743
Species:	Human
Source:	HEK293
Accession:	Q7Z6A9 (K31-S150)
Gene ID:	151888
Molecular Weight:	38-50 kDa

PROPERTIES

Biological Activity	Measured by its binding ability in a functional ELISA. When immobilized Anti-BTLA Antibody, hFc Tag at 0.5µg/ml (100µl/well), can bind Biotinylated Human BTLA, His Tag with the EC50 of <10 ng/ml.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	BTLA/CD272, an inhibitory receptor expressed on lymphocytes, serves as a negative regulator of antigen receptor signaling through interactions with tyrosine phosphatases PTPN6/SHP-1 and PTPN11/SHP-2. These interactions contribute to the modulation of immune responses and the maintenance of lymphocyte homeostasis. BTLA may engage in both cis and trans interactions with TNFRSF14, with cis interactions playing a regulatory role in naive T cells, inhibiting trans interactions to maintain a resting state. In contrast, trans interactions, predominant during adaptive immune responses, provide survival signals to effector T cells. The intricate interplay between BTLA and its binding partners underscores its multifaceted role in immune regulation.
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Caution: Product has not been fully validated for medical applications. For research use only.

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