

Datasheet for ABIN4949010

BTLA Protein (AA 31-134) (Fc Tag,AVI tag,Biotin)[Go to Product page](#)**2** Images

Overview

Quantity:	200 µg
Target:	BTLA
Protein Characteristics:	AA 31-134
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This BTLA protein is labelled with Fc Tag,AVI tag,Biotin.
Application:	Functional Studies (Func)

Product Details

Brand:	MABSol®,PrecisionAvi
Sequence:	AA 31-134
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	This protein carries a human IgG1 Fc tag at the C-terminus, followed by a Avi tag (Avitag™). The protein has a calculated MW of 40.5 kDa. The protein migrates as 55-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	BTLA
Alternative Name:	BTLA (BTLA Products)
Background:	B- and T-lymphocyte attenuator (BTLA) is also known as B- and T-lymphocyte-associated protein, CD antigen CD272. BTLA contains one Ig-like V-type (immunoglobulin-like) domain. As a lymphocyte inhibitory receptor, BTLA / CD272 inhibits lymphocytes during immune response. BTLA / CD272 can interact with tyrosine phosphatases PTPN6/SHP-1 and PTPN11/SHP-2, and interact with TNFRSF14/HVEM.
Molecular Weight:	40.5 kDa
UniProt:	Q7Z6A9
Pathways:	Cancer Immune Checkpoints

Application Details

Comment:	<p>Ready-to-use Avitag™ biotinylated protein:</p> <p>The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.</p> <p>This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.</p>
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Tris with Glycine, Arginine and NaCl, pH 7.5
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

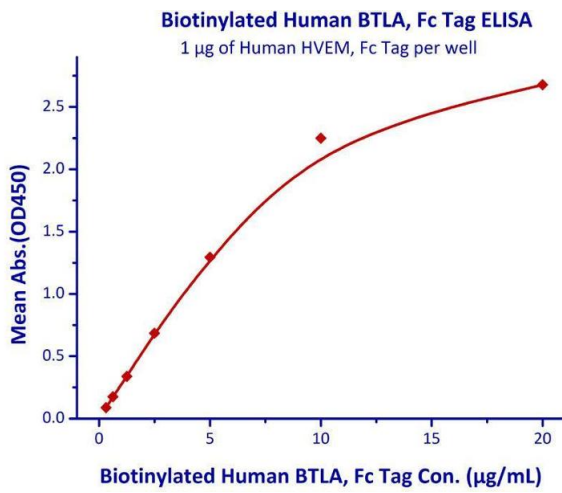
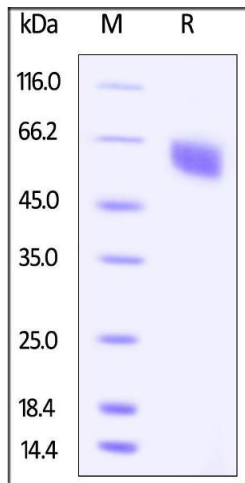


Image 1. Measured by its binding ability in a functional ELISA. Immobilized Human HVEM, Fc Tag with a linear range of 0.3-5 µg/mL.



SDS-PAGE

Image 2. Biotinylated Human BTLA (31-134), Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.