B- and T-lymphocyte attenuator (BTLA) Active Protein | BTLA active protein

Recombinant Human B- and T-lymphocyte attenuator (BTLA), partial (Active)

CATALOG #	HOST
AAA279251	**Mammalian Cell**

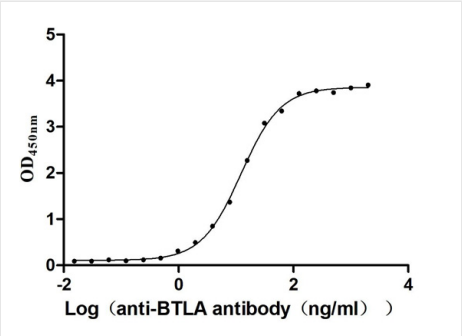
PRODUCT SYNONYMS

B- and T-lymphocyte attenuator (BTLA); Recombinant Human B- and T-lymphocyte attenuator (BTLA); partial (Active); BTLA active protein

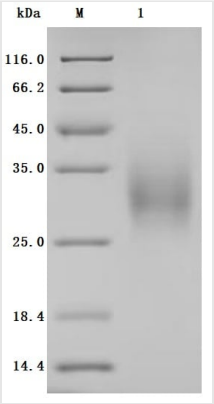
PRODUCT SPECIFICATIONS

Host	Mammalian Cell
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Form/Format	Lyophilized powder Lyophilized from a 0.2 um filtered PBS, 6% Trehalose, pH 7.4
Sequence Positions	31-157aa; Partial (Extracellular Domain)
Sequence	KESCDVQLYI KRQSEHSILA GDPFELECPV KYCANRPHVT WCKLNGTTCV KLEDRQTSWK EEKNISFFIL HFEPVLPNDN GSYRCSANFQ SNLIESHSTT LYVTDVKSAS ERPSKDEMAS RPWLLYR
Species	Homo sapiens (Human)
Tag	C-terminal 10xHis-tagged
Endotoxin	Less than 1.0 EU/ug as determined by LAL method.
Research Area	Cancer
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human BTLA at 2 ug/mL can bind Anti-BTLA recombinant antibody. The EC50 is 11.56-13.00 ng/mL.
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

IMAGES



Bioactivity
Measured by its binding ability in a functional ELISA. Immobilized Human BTLA at 2?g/mL can bind Anti-BTLA recombinant antibody, the EC50 is 11.56-13.00 ng/mL.



SDS-PAGE
Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

ADDITIONAL INFORMATION

Related Product Information for BTLA active protein	Inhibitory receptor on lymphocytes that negatively regulates antigen receptor signaling via PTPN6/SHP-1 and PTPN11/SHP-2.May interact in cis (on the same cell) or in trans (on other cells) with TNFRSF14.
Product Categories/Family for BTLA active protein	Active Protein & In Stock Protein
References	"Point mutations in the BTLA gene in multiple myeloma and other hematologic malignancies."Mao Y., Wang X., Wu H., Chen Y., Ge Y., Chen J., Zhang X.Submitted to EMBL/GenBank/DDBJ databases (APR-2004)"The DNA sequence, annotation and analysis of human chromosome 3."Muzny D.M., Scherer S.E., Kaul R., Wang J., Yu J., Sudbrak R., Buhay C.J., Chen R., Cree A., Gibbs R.A.Nature 440:1194-1198 (2006)"Complete sequencing and characterization of 21,243 full-length human cDNAs."Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Sugano S.Nat. Genet. 36:40-45 (2004)

NCBI AND UNIPROT INFORMATION

NCBI GI #	145580619
NCBI GeneID	151888
NCBI Accession #	NP_001078826.1
NCBI GenBank Nucleotide #	NM_001085357.1
UniProt Accession #	Q7Z6A9; Q3B831; Q3HS85; Q6ZNH9
Molecular Weight	32,834 Da
NCBI Official Full Name	B- and T-lymphocyte attenuator isoform 2
NCBI Official Synonym Full Names	B and T lymphocyte associated
NCBI Official Symbol	BTLA
NCBI Official Synonym Symbols	BTLA1; CD272
NCBI Protein Information	B- and T-lymphocyte attenuator; B and T lymphocyte attenuator; B- and T-lymphocyte-associated protein
UniProt Protein Name	B- and T-lymphocyte attenuator
UniProt Gene Name	**BTLA**
UniProt Entry Name	BTLA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://www.aaabiotech.com/mammalian-active-protein/b-and-t-lymphocyte-attenuator-btla/279251