

## BTLA recombinant protein

BTLA Protein, Mouse, Recombinant (His Tag), HPLC-verified

CATALOG #  
**AAA259261**

HOST  
**HEK293 Cells**

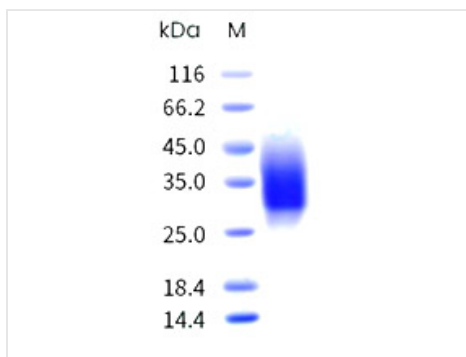
### PRODUCT SYNONYMS

BTLA; BTLA Protein; Mouse; Recombinant (His Tag); HPLC-verified; B and T lymphocyte associated; A630002H24 Protein; BTLA recombinant protein

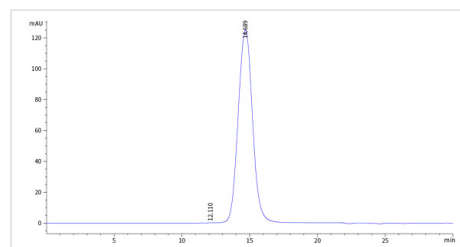
### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | HEK293 Cells                                                                                                                                                                                                                                                                |
| Purity/Purification     | >= 95% as determined by SDS-PAGE.<br>= 95% as determined by SEC-HPLC.                                                                                                                                                                                                       |
| Form/Format             | Lyophilized from sterile PBS, pH 7.4.<br>Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                                               |
| Species                 | Mouse                                                                                                                                                                                                                                                                       |
| Predicted N Terminal    | Glu 30                                                                                                                                                                                                                                                                      |
| Endotoxin               | <1.0 EU per ug protein as determined by the LAL method.                                                                                                                                                                                                                     |
| Protein Construction    | A DNA sequence encoding the Mouse BTLA (AAI08964.1)(Met1-Gly176) was expressed with a polyhistidine tag at the C-terminus.                                                                                                                                                  |
| Activity                | Immobilized Recombinant Mouse BTLA Protein (His Tag)(Cat:51060-M08H) at 2 ug/mL (100 uL/well) can bind Recombinant Mouse HVEM/TNFRSF14 Protein (His & Fc Tag)(Cat:10567-M03S), the EC50 is 8-24 ng/mL.                                                                      |
| Preparation and Storage | Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |

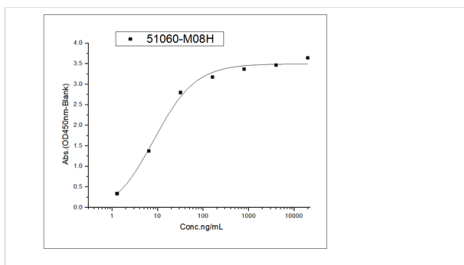
### IMAGES



Application Data



Application Data



#### Application Data

Immobilized Recombinant Mouse BTLA Protein (His Tag) (Cat:AAA259261) at 2 ug/mL (100 uL/well) can bind Recombinant Mouse HVEM / TNFRSF14 Protein (His & Fc Tag) (Cat:10567-M03S) , the EC50 is 8-24 ng/mL.

## ADDITIONAL INFORMATION

|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Related Product Information for BTLA recombinant protein</b> | <p>BTLA is a inhibitory molecule which belongs to the Ig superfamily. It down-modulates immune responses. As such, reagents that regulate the binding of BTLA to its ligand or alter BTLA signaling have significant therapeutic promise. BTLA is crucial to understand the mechanism(s) of action of these antibodies before attempting clinical applications. BTLA is not expressed by naive T cells, but it is induced during activation and remains expressed on T helper type 1 (T(H)1) but not T(H)2 cells. BTLA is a third inhibitory receptor on T lymphocytes with similarities to cytotoxic T lymphocyte-associated antigen 4 (CTLA-4) and programmed death 1 (PD-1).</p> |
| <b>References</b>                                               | <p>Fourcade J, et al. (2012) CD8(+) T cells specific for tumor antigens can be rendered dysfunctional by the tumor microenvironment through upregulation of the inhibitory receptors BTLA and PD-1. <i>Cancer Res.</i> 72(4):887-96.</p> <p>Kojima R, et al. (2011) Molecular basis for herpesvirus entry mediator recognition by the human immune inhibitory receptor CD160 and its relationship to the cosignaling molecules BTLA and LIGHT. <i>J Mol Biol.</i> 413(4):762-72.</p> <p>Oki M, et al. (2011) A functional polymorphism in B and T lymphocyte attenuator is associated with susceptibility to rheumatoid arthritis. <i>Clin Dev Immunol.</i> 305656.</p>             |

## NCBI AND UNIPROT INFORMATION

|                         |                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Weight</b> | <p>The recombinant Mouse BTLA consists of 187 amino acids and predicts a molecular mass of 21.54 kDa. It migrates as an approximately 33.7 kDa band in SDS-PAGE under reducing conditions.</p> |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**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/btla-recombinant-protein-hek293/259261>