

BTLA
Purified Mouse Monoclonal Antibody
Catalog # AO2697a**Specification**

BTLA - Product Information

Application	E, WB
Primary Accession	Q7Z6A9
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	32.8kDa KDa
Immunogen	

Purified recombinant fragment of human BTLA (AA: extra 31-157) expressed in HEK293 cells.

Formulation

Purified antibody in PBS with 0.05% sodium azide

BTLA - Additional Information

Gene ID 151888

Other Names

BTLA1; CD272

Dilution

E~~ 1/10000

WB~~ 1/500 - 1/2000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

BTLA is for research use only and not for use in diagnostic or therapeutic procedures.

BTLA - Protein Information

Name BTLA {ECO:0000303|PubMed:12796776, ECO:0000312|HGNC:HGNC:21087}

Function

Inhibitory receptor on lymphocytes that negatively regulates antigen receptor signaling via PTPN6/SHP-1 and PTPN11/SHP-2 (PubMed:12796776, PubMed:14652006, PubMed:15568026, PubMed:18193050)

target="_blank">18193050). May interact in cis (on the same cell) or in trans (on other cells) with TNFRSF14 (PubMed:19915044). In cis interactions, appears to play an immune regulatory role inhibiting in trans interactions in naive T cells to maintain a resting state. In trans interactions, can predominate during adaptive immune response to provide survival signals to effector T cells (PubMed:19915044).

Cellular Location

Cell membrane; Single-pass type I membrane protein

BTLA - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

BTLA - Images

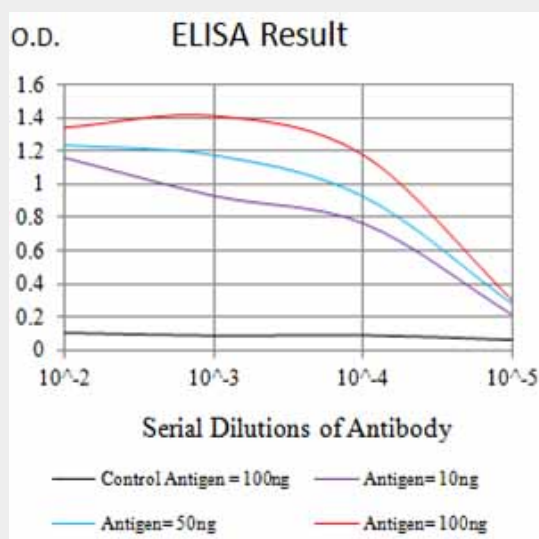


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

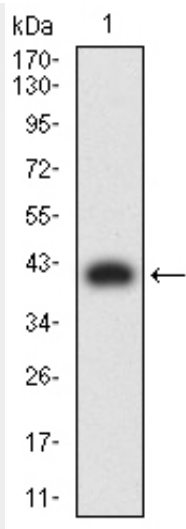


Figure 2: Western blot analysis using BTLA mAb against human BTLA (AA: extra 31-157) recombinant protein. (Expected MW is 41 kDa)

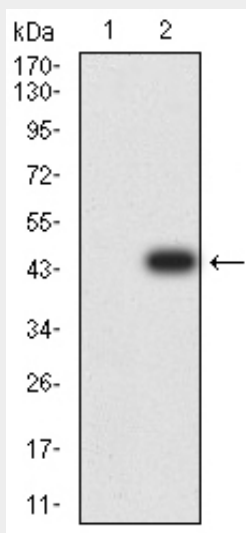


Figure 3: Western blot analysis using BTLA mAb against HEK293 (1) and BTLA (AA: extra 31-157)-hlgGfc transfected HEK293 (2) cell lysate.

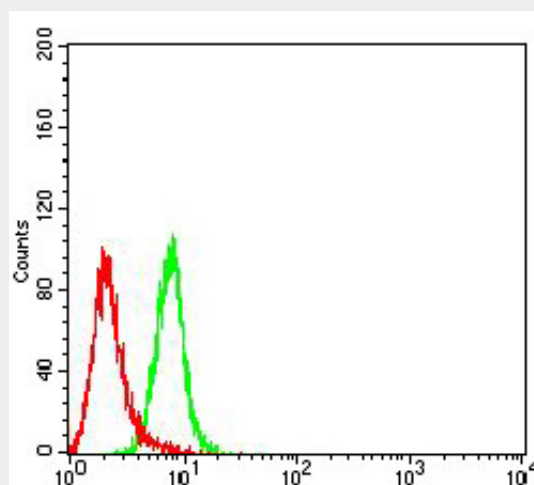


Figure 4: Flow cytometric analysis of HeLa cells using BTLA mouse mAb (green) and negative

control (red).

BTLA - References

1.Blood. 2013 Aug 8;122(6):922-31. 2.Breast Cancer Res Treat. 2010 Feb;120(1):195-202.