

Mouse anti-Human BTLA Monoclonal Antibody

BTLA (B- and T-lymphocyte Associated Protein, B- and T-lymphocyte Attenuator, BTLA1, CD272, CD272 Antigen, FLJ16065, MGC129743) (FITC)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA14735	Mouse	Human	Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

BTLA; Monoclonal Antibody; BTLA (B- and T-lymphocyte Associated Protein; B- and T-lymphocyte Attenuator; BTLA1; CD272; CD272 Antigen; FLJ16065; MGC129743) (FITC); Anti-BTLA (B- and T-lymphocyte Associated Protein; anti-BTLA antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	11K3
Specificity	Recognizes human CD272 (BTLA). Binds to CD272 on the cell surface of human PBMC in Flow Cytometry and to recombinant CD272-mulg in ELISA. Does not block binding of Biotinylated CD270 (HVEM)-mulg to CD272-mulg in ELISA, but appears to enhance this interaction.
Purity/Purification	Purified by Protein A affinity chromatography form tissue culture supernatant.
Form/Format	Supplied as a liquid in 50mM sodium phosphate, pH 7.5, 100mM potassium chloride, 150mM sodium chloride, 0.2% BSA, 0.04% sodium azide, 5% glycerol. Labeled with fluorescein isothiocyanate (FITC).
Concentration	0.25 mg/ml (varies by lot)
Applicable Applications for anti-BTLA antibody	FCM/FACS (Flow Cytometry)
Application Notes	Suitable for use in ELISA and Flow Cytometry. Dilution: ELISA: Detection Flow Cytometry: 1:50 Flow Cytometry Protocol: 1. 5x10e5 ficoll prepared human peripheral blood mononuclear cells (PBMC) per tube were pelleted and pre incubated 5 minutes with 20ul of human IgG at 300ug/ml, after which they were washed and incubated 45 minutes on ice with 80ul of B5001-61K at a 1:50 dilution (5ug/ml). 2. They were then washed three times, fixed and analyzed by FACS using a lymphoid gate. 3. Cells stained positive with a mean shift of 0.54 log10 fluorescent units when compared to a Mouse IgG1 (FITC) negative control at a similar concentration. 4. Binding was blocked when cells were pre incubated 10 minutes with 20ul of 0.5mg/ml.
Immunogen	Recombinant protein corresponding to soluble human BTLA
Preparation and Storage	Store product at 4°C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20°C. Aliquots are stable at -20°C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

IMAGES



Application Data
Flow Cytometry analysis of human PBL using AAA14735

ADDITIONAL INFORMATION

Related Product Information for anti-BTLA antibody	Human CD272 (BTLA, B and T Lymphocyte Attenuator) is a member of the Immunoglobulin superfamily and has sequence homology to PD-1 and CTLA4. It is expressed on T and B lymphocytes and other hemopoetic lineages. Engagement of this molecule by its ligand, CD270 (HVEM, a TNF superfamily member) can down regulate activated T and B cell responses. CD272 levels on antigen specific CD8+ T cells have been reported to decrease in viral specific, but not melanoma specific activated lines. Polymorphism of the CD272 molecule has been linked to rheumatoid arthritis.
Product Categories/Family for anti-BTLA antibody	Antibodies; Abs to CD Markers

NCBI AND UNIPROT INFORMATION

NCBI GI #	25140977
NCBI Official Full Name	BtIA

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://stage.aaabiotech.com/monoclonal/btla-antibody-clone-11k3-flow-cytometry-elisa/14735>