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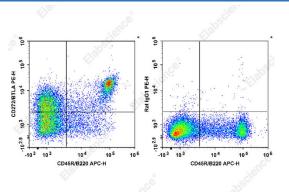
## PE Anti-Mouse CD272/BTLA Antibody[PK18.6]

#### Catalog Number: E-AB-F1024D

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description	
Reactivity	Mouse
Host	Rat
Isotype	Rat lgG1, κ
Clone No.	PK18.6
Isotype Control	PE Rat IgG1, κ Isotype Control[HRPN] [Product E-AB-F09822D]
Conjugation	PE
Conjugation Information Storage Buffer	PE is designed to be excited by the Blue (488 nm), Green (532 nm) and Yellow-Green (561 nm) lasers and detected using an optical filter centered near 575 nm (e.g., a 585/42 nm bandpass filter). Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein
	protectant.
Applications	Recommended usage
FCM	Each lot of this antibody is quality control tested by flow cytometric analysis. The amount of the reagent is suggested to be used 5 µL of antibody per test (million cells in 100 µL staining volume or per 100 µL of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.





Staining of C57BL/6 murine splenocytes with APC Anti-Mouse CD45R/B220 Antibody[RA3.3A 1/6.1] and PE Anti-Mouse CD272/BTLA Antibody[PK18.6] (left) or PE Rat IgG1,  $\kappa$  Isotype Control (right). Total viable cells were used for analysis.

Preparation & Storage	
Storage	Keep as concentrated solution. This product can be stored at 2-8°C for 12 months. Please protected from prolonged exposure to light and do not freeze.
Shipping	Ice bag
Antigen Information	
Alternate Names	B- and T-lymphocyte attenuator;B- and T-lymphocyte-associated protein;Btla;CD272

### For Research Use Only

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Uniprot ID Gene ID Background

### Q7TSA3

208154

CD272, also known as B and T lymphocyte attenuator (BTLA), is an Ig superfamily coinhitory receptor with structural similarity to programmed cell death 1 (PD-1) and CTLA-4. BTLA is expressed on B cells, T cells, macrophages, dendritic cells, NKT cells, and NK cells. Engagement of BTLA by its ligand herpes virus entry mediator (HVEM) is critical for negatively regulating immune response. The absence of BTLA with HVEM inhibitory interactions leads to increased experimental autoimmune encephalomyelitis severity, enhanced rejection of partially mismatched allografts, an increased CD8+ memory T cell population, increased severity of colitis, and reduced effectiveness of T regulatory cells. BTLA plays an important role in the induction of peripheral tolerance of both CD4+ and CD8+ T cells in vivo. Tolerant T cells have significantly higher expression of BTLA compared with effectors and naïve T cells. BTLA may cooperate with CTLA-4 and PD-1 to control T cell tolerance and autoimmunity. It was reported that BTLA may regulate T cell function by binding to B7-H4, but further studies are needed to confirm. The existence of three distinct BTLA alleles has been reported.

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