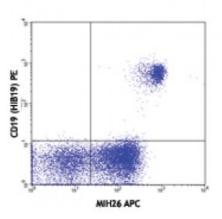
## **Product Data Sheet**

## APC anti-human CD272 (BTLA)

Catalog # / Size:	2322550 / 100 tests 2322545 / 25 tests
Clone:	MIH26
Isotype:	Mouse IgG2a, κ
Immunogen:	Human BTLA transfected cells
<b>Reactivity:</b>	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
<b>Concentration:</b>	Lot-specific



Human peripheral blood lymphocytes stained with CD19 (HIB19) PE and MIH26 APC (top) or mouse IgG2a, κ APC isotype control (bottom)

## **Applications:**

Applications:	Flow Cytometry	
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. <b>Test size products are transitioning</b> <b>from 20 microL to 5 microL per test</b> . Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.	
Application Notes:	Additional reported applications (for the relevant formats) include: inhibition of T cell proliferation and cytokine production1. Clone MIH26 has agonistic activity on BTLA, resulting in the inhibition of activation.	
Application References:	1. Otsuki N, <i>et al.</i> 2006. <i>Biochem. Bioph. Res. Co.</i> 344:1121. 2. Okano M, <i>et al.</i> 2008. <i>Clin. Exp. Allergy</i> 38:1891.	
Description:	B and T lymphocyte attenuator (BTLA) is an Ig superfamily coinhibitory 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 <sup>+</sup> memory T cell population, increased severity of colitis, and	

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com reduced effectiveness of T regulatory cells. BTLA plays an important role in the induction of peripheral tolerance of both CD4<sup>+</sup> and CD8<sup>+</sup> T cells in vivo. Tolerant T cells have significant up-regulated expression of BTLA compared with effector and naïve T cells. BTLA may cooperate with CTLA-4 and PD-1 to control T cell tolerance and autoimmunity. It has been reported that BTLA may regulate T cell function through binding to B7-H4.

 Antigen
 1. Watanabe N, et al. 2003. Nat. Immunol. 4:670.

 References:
 2. Sun Y, et al. 2009. J. Immunol. 183:1946.

 3. Gonzalez LC, et al. 2005. P. Natl. Acad. Sci. USA 102:1116.