

## APC anti-mouse CD272 (BTLA)

**Catalog # / Size:** 134809 / 25 µg  
134810 / 100 µg

**Clone:** 8F4

**Isotype:** Mouse IgG1, κ

**Immunogen:** C57BL/6 BTLA Ig domain protein in CFA

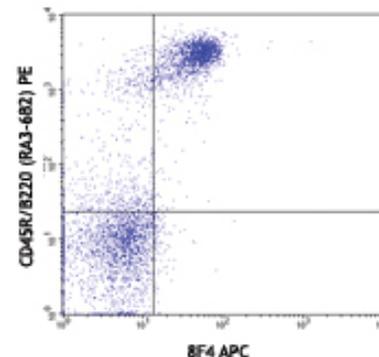
**Reactivity:** Mouse

**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.

**Concentration:** 0.2 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



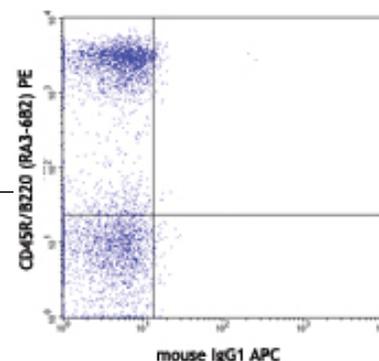
C57BL/6 mouse splenocytes stained with 8F4 APC and CD45R/B220 (RA3-6B2) PE

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 1.0 µg per 10<sup>6</sup> cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application References:** 1. Hurchla MA, *et al.* 2005. *J. Immunol.* 174:3377



C57BL/6 splenocytes stained with mouse IgG1 APC isotype control and CD45R/B220 (RA3-6B2) PE

**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, reduced effectiveness of T regulatory cells. BTLA takes 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 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 was reported. The BTLA antibody reacts with mouse BTLA from both BALB/c and C57BL/6 strains.

- Antigen References:**
1. Liu X, *et al.* 2009. *J. Immunol.* 182:4516
  2. Miller ML, *et al.* 2009. *J. Immunol.* 183:32
  3. Sun Y, *et al.* 2009. *J. Immunol.* 183:1946
  4. Vendel AC, *et al.* 2009. *J. Immunol.* 182:1509
  5. Watanabe N, *et al.* 2003. *Nat. Immunol.* 4(7):670
  6. Sedy JR, *et al.* 2005. *Nat Immunol.* 6(1):90

### Related Products:

**Product**  
APC Mouse IgG1, κ Isotype Ctrl  
Cell Staining Buffer  
RBC Lysis Buffer (10X)  
TruStain fcX™ (anti-mouse CD16/32)

**Clone**  
MOPC-21  
  
  
93

**Application**  
FC, ICFC  
FC, ICC, ICFC  
FC, ICFC  
FC



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