

APC anti-mouse/human CD276 (B7-H3)

Catalog # / Size: 1278035 / 25 µg
1278040 / 100 µg

Clone: MIH35

Isotype: Rat IgG2a, κ

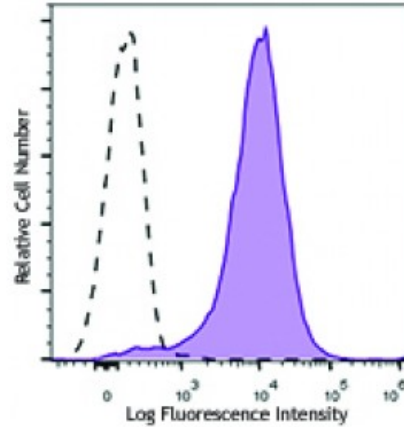
Immunogen: Mouse B7-H3 transfected L cell and P815

Reactivity: 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.

Concentration: Lot-specific



Mouse B7-H3-transfected P815 cells were stained with CD276 (clone MIH35) APC (filled histogram) or rat IgG2a, κ APC isotype control (open histogram).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.75 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

- Application References:**
1. Hashiguchi M, *et al.* 2008. *Proc Natl Acad Sci USA.* 105(30):10495.
 2. del Rio ML, *et al.* 2011. *Transpl. Int.* 24:501. (FC) [PubMed](#)

Description: B7-H3 is a type I transmembrane protein belonging to the B7 family of co-stimulatory proteins. B7-H3 is mostly expressed on professional APCs including B cells, macrophages, and dendritic cells at low levels. It is detected on various human and murine tumor cells, nasal and airway epithelial cells. Its expression on dendritic cells appears to be up-regulated by LPS. Initial studies have shown that B7-H3 provides a stimulatory signal to T cells. However, recent studies suggest a negative regulatory role for B7-H3 in T cell responses. Mouse B7-H3 protein inhibited T cell activation and effector cytokine production. Thus, the immunological function of B7-H3 remains unclear. B7-H3 is involved in the suppression of Th1-mediated immune responses and plays an important role in the development of pathogenic Th2 cells in a murine asthma model. Monoclonal antibody against B7-H3 enhances T cell proliferation *in vitro* and leads to exacerbated EAE *in vivo*. It has been reported that the Triggering Receptor Expressed on Myeloid cells (TREM)-like Transcript 2 (TLT-2, TREML2) is a receptor for B7-H3 in mice, although it remains controversial. Further studies are needed to identify the receptor of B7-H3.

- Antigen References:**
1. Nagashima O, *et al.* 2008. *J. Immunol.* 181:4062
 2. Prasad DVR, *et al.* 2004. *J. Immunol.* 173:2500
 3. Sun M, *et al.* 2002. *J. Immunol.* 168:6294
 4. Xu J, *et al.* 2006. *Cellu*