BioLegend
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Product Data Sheet

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

Catalog # / Size: 135605 / 25 µg
135606 / 100 µg

Clone: MIH35

Isotype: Rat IgG2a, κ

Immunogen: Mouse B7-H3 transfected L cell and P815

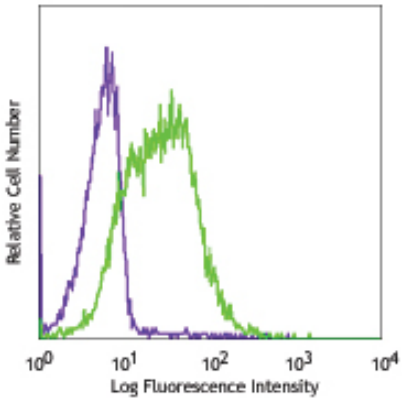
Reactivity: Mouse, **Cross-Reactivity:** Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE 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.**



Mouse B7-H3 transfected P815 cells stained with MIH35 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 10^6 cells in 100 µl 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 level. 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 was reported recently that the Triggering Receptor Expressed on Myeloid cells (TREM)-like Transcript 2 (TLT-2, TREML2) is a receptor for B7-H3 in mice. 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. *Cellular and Molecular Immunology.* 3(3):235
5. Ford JW, *et al.* 2009. *Curr Opin Immunol.* 21(1):38
6. Leitner J, *et al.* 2009. *Eur. J. Immunol.* 2009. 39(7):1754

Related Products:

Product	Clone	Application
PE Rat IgG2a, κ Isotype Ctrl	RTK2758	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
TruStain fcX™ (anti-mouse CD16/32)	93	FC

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