

Anti-Mouse CD276 (B7-H3) Functional Grade Purified

Catalog Number: 16-5973 Also Known As:B7RP-2, B7RP2, B7H3 RUO: For Research Use Only



Product Information

Contents: Anti-Mouse CD276 (B7-H3) Functional Grade
PurifiedForm
TemImage: Catalog Number: 16-5973
Clone: M3.2D7
Concentration: 1 mg/ml
Host/Isotype: Rat IgG2a
Handling Conditions: Use in sterile environment.
Endotoxin Level: Less than 0.001 ng/ug antibody, as
determined by the LAL assay.Form
Tem

Staining of non-transfected (left) and mouse B7-H3 transfected (right) 293T cells with 0.25 µg of Rat IgG2a Isotype Control Functional Grade Purified (cat. 16-4321) (open histogram) or 0.25 µg of Anti-Mouse CD276 (B7-H3) Functional Grade Purified (filled histogram) followed by Anti-Rat IgG Biotin (cat. 13-4813)and Streptavidin PE (cat. 12-4317). Total cells were used for analysis.

Formulation: aqueous buffer, no sodium azide **Temperature Limitation:** Store at 2-8°C.



Description

The M3.2D7 monoclonal antibody was generated against and reacts with mouse B7-H3, a member of the B7 family of the Ig superfamily proteins. B7-H3 is reported to be expressed by antigen presenting cells and developing bone during embryogenesis. The ligand for B7-H3 has not yet been identified and it is thought that B7-H3 down-regulates T cell functions by engaging an unknown counter receptor on T cells. M3.2D7 stains mouse B7-H3 transfected cells and not mouse spleen cells. M3.2D7 also stains human B7-H3 transfected cells.

Applications Reported

The M3.2D7 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The M3.2D7 antibody has been tested by flow cytometric analysis of mB7-H3 transfected cells. This can be used at less than or equal to 0.5 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Chen Y, Yang C, et al. 2007. Terminal complement complex C5b-9-treated human monocyte-derived dendritic cells undergo maturation and induce Th1 polarization. Eur J Immunol. 37(1):167-76. (human FC, PubMed)

Chen Y, Yang C, et al. 2007. Sinomenine promotes differentiation but impedes maturation and co-stimulatory molecule expression of human monocyte-derived dendritic cells. Int Immunopharmacol. 7(8):1102-10. (human FC, PubMed)

Nakae S, Iwakura Y, et al. 2007. Phenotypic differences between Th1 and Th17 cells and negative regulation of Th1 cell differentiation by IL-17. J Leukoc Biol. 81(5):1258-68. (mouse FC, PubMed)

Related Products

11-4317 Streptavidin FITC
11-4811 Anti-Rat IgG FITC
12-4317 Streptavidin PE
13-4813 Anti-Rat IgG Biotin (Polyclonal)
16-4321 Rat IgG2a K Isotype Control Functional Grade Purified
17-4317 Streptavidin APC

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