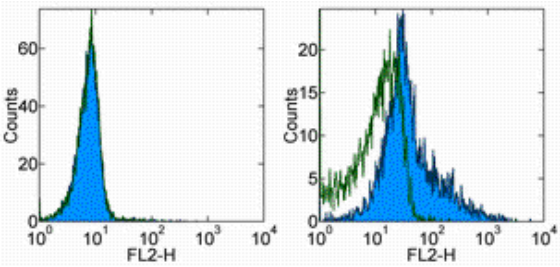
full spectrum cell analysis®
eBioscience®

Anti-Mouse B7-H4 Functional Grade Purified

Catalog Number: 16-5972
Also Known As:B7H4, B7S1, B7-S1, B7X
RUO: For Research Use Only



Staining of non-transfected (left) and mouse B7-H4 transfected (right) L5178Y cells with 0.25 µg Rat IgG2b Isotype Control Functional Grade Purified (cat. 16-4031) (open histogram) or 0.25 µg Anti-Mouse B7-H4 Functional Grade Purified (filled histogram) followed by Anti-Rat IgG Biotin (cat. 13-4813)and Streptavidin PE (cat. 12-4317). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse B7-H4 Functional Grade Purified
REF **Catalog Number:** 16-5972
Clone: 188
Concentration: 1 mg/ml
Host/Isotype: Rat IgG2b, κ
Handling Conditions: Use in sterile environment.
Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide
Temperature Limitation: Store at 2-8°C.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial

Description

The 188 monoclonal antibody was generated against and reacts with mouse B7-H4 also known as B7S1, B7X. Cross reactivity of this antibody to other proteins has not been determined. B7-H4 is a newly discovered member of the B7 family reported to inhibit T cell activation, cell cycle progression and IL-2 production. The ligand for B7-H4 has not been identified yet. Simultaneous double staining of cells with two anti-mouse B7-H4 antibodies, Clone 9 and 188, suggests that epitopes recognized by these mAbs are different and/or there is no steric hindrance when antibodies are used together. 188 stains mouse B7-H4 transfected cells and not spleen cells. Exact expression pattern of B7-H4 has not been fully characterized.

Applications Reported

This 188 antibody has been reported for use in flow cytometric analysis and has also been reported to block binding of B7-H4 ligand in vitro.

Applications Tested

The 188 antibody has been tested by flow cytometric analysis of transfected cells. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Prasad DV, Richards S, Mai XM, Dong C. 2003. B7S1, a novel B7 family member that negatively regulates T cell activation. Immunity. 18(6):863-73.

Choi IH, Zhu G, Sica GL, Strome SE, Cheville JC, Lau JS, Zhu Y, Flies DB, Tamada K, Chen L. 2003. Genomic organization and expression analysis of B7-H4, an immune inhibitory molecule of the B7 family. J Immunol. 171(9):4650-4.

Sica GL, Choi IH, Zhu G, Tamada K, Wang SD, Tamura H, Chapoval AI, Flies DB, Bajorath J, Chen L. 2003. B7-H4, a molecule of the B7 family, negatively regulates T cell immunity. Immunity. 18(6):849-61.

Chen Y, Yang C, et al. 2006. Expression of the novel co-stimulatory molecule B7-H4 by renal tubular epithelial cells. Kidney Int. 2006 Dec;70(12):2092-9. (FA, PubMed)

Related Products

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC
12-4317 Streptavidin PE
12-5970 Anti-Mouse B7-H4 PE (Clone 9)
13-4813 Anti-Rat IgG Biotin (Polyclonal)
13-5970 Anti-Mouse B7-H4 Biotin (Clone 9)
14-5970 Anti-Mouse B7-H4 Purified (Clone 9)
17-4317 Streptavidin APC

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