full spectrum cell analysis®
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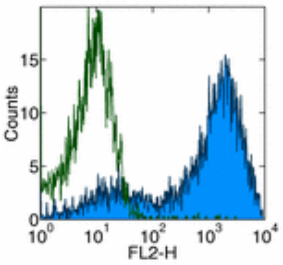
Anti-Mouse CD86 (B7-2) PE

Catalog Number: 12-0861
Also Known As:B72, B7.2, B70, Ly-58
RUO: For Research Use Only



Surface staining of LPS-stimulated splenocytes with Rat IgG2b κ Isotype Control PE (cat. 12-4031) (open histogram) and Anti-Mouse CD86 (B7-2) PE (filled histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD86 (B7-2) PE
REF Catalog Number: 12-0861
Clone: PO3.1
Concentration: 0.2 mg/ml
Host/Isotype: Rat IgG2b, κ

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.
LOT Batch Code: Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description

The PO3.1 monoclonal antibody reacts with mouse CD86, an ~80 kDa surface receptor also known as B7-2. CD86 and CD80 are members of the B7 family of costimulatory molecules. CD86 is expressed at low level on B cells, macrophages, and dendritic cells and is upregulated on B cells through a variety of surface stimuli including the BCR complex, CD40 and some cytokine receptors. CD86 is also expressed by activated mouse T cells and thioglycolate-elicited peritoneal cells. In addition to CD80 (B7-1), CD86 is a counter-receptor for the T cell surface molecules CD28 and CD152 (CTLA-4). The interaction of CD86 with its ligands plays a critical role in T-B crosstalk, T cell costimulation, autoantibody production and Th2-mediated Ig production. The kinetics of upregulation of CD86 upon stimulation supports its major contribution during the primary phase of an immune response.

Applications Reported

The PO3.1 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The PO3.1 antibody has been tested by flow cytometric analysis of resting and activated mouse splenocyte suspensions. This can be used at less than or equal to 0.125 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

Nakajima, A., M. Azuma, et al. (1995). "Preferential dependence of autoantibody production in murine lupus on CD86 costimulatory molecule." Eur J Immunol 25(11): 3060-9.

Related Products

11-0862 Anti-Mouse CD86 (B7-2) FITC (GL1)
12-0862 Anti-Mouse CD86 (B7-2) PE (GL1)
12-4031 Rat IgG2b K Isotype Control PE
13-0862 Anti-Mouse CD86 (B7-2) Biotin (GL1)
14-0862 Anti-Mouse CD86 (B7-2) Purified (GL1)
15-0862 Anti-Mouse CD86 (B7-2) PE-Cy5 (GL1)
16-0862 Anti-Mouse CD86 (B7-2) Functional Grade Purified (GL1)
17-0862 Anti-Mouse CD86 (B7-2) APC (GL1)