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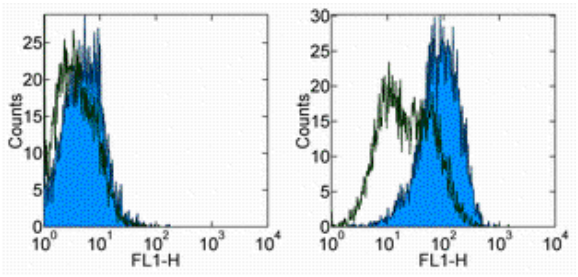
# Anti-Mouse CD86 (B7-2) Purified

**Catalog Number:** 14-0861
**Also Known As:** B70, Ly-58
**RUO: For Research Use Only**




Staining of 2-day unstimulated (left) or LPS-stimulated (right) C57BL/6 splenocytes with 0.25 ug of Rat IgG2b K Isotype Control Purified (cat. 14-4031) (open histogram) or 0.25 ug of Anti-Mouse CD86 (B7-2) Purified (filled histogram) followed by Anti-Rat IgG FITC (cat. 11-4811). Total viable cells were used for analysis.

## Product Information

**Contents:** Anti-Mouse CD86 (B7-2) Purified
REF **Catalog Number:** 14-0861
**Clone:** PO3.1
**Concentration:** 0.5 mg/mL
**Host/Isotype:** Rat IgG2b, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
**Temperature Limitation:** Store at 2-8°C.
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. It has also been reported in blocking of CD86 in functional studies. (Please use Functional Grade purified PO3.1, cat. 16-0861, in functional assays.)

## Applications Tested

The PO3.1 antibody has been tested by flow cytometric analysis of resting and activated mouse splenocyte suspensions and 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

**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

13-4813 Anti-Rat IgG Biotin (Polyclonal)
14-4031 Rat IgG2b K Isotype Control Purified
17-4317 Streptavidin APC