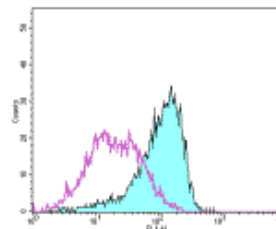


Product Information

Contents: Affinity Purified anti-mouse CD86 (B7-2)
Catalog Number: 14-0862
Sizes: 50 ug, 100 ug, 500 ug, 1 mg
Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, 0.09% NaN₃
Storage Conditions: Store at 4°C.
Avoid repeated freeze/thaw cycles.
Clone: GL1
Isotype: Rat IgG2a, κ



Staining of 3-day LPS activated BALB/c splenocytes with 0.25 µg of purified rat IgG2a isotype control (cat. 14-4321) (open histogram) or 0.25 µg of purified GL1 followed by FITC anti-rat IgG (cat. 11-4811) (colored histogram). Total viable cells were used for analysis.

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-0862	FITC anti-mouse CD86 (B7-2)	488	518	FC
12-0862	PE anti-mouse CD86 (B7-2)	488	575	FC
13-0862	Biotin anti-mouse CD86 (B7-2)	N/A	N/A	FC
14-0862	Affinity Purified anti-mouse CD86 (B7-2)	N/A	N/A	FA FC IP
15-0862	PE-Cy5 anti-mouse CD86 (B7-2)	488	670	FC
16-0862	Functional Grade* Purified anti-mouse CD86 (B7-2)	N/A	N/A	FA FC
17-0862	APC anti-mouse CD86 (B7-2)	633	660	FC

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/µg.
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

Description

The GL1 monoclonal antibody reacts with mouse CD86, an ~80 kDa surface receptor also known as B7-2. CD86 & 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). This interaction 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.

Usage

For research use only, not for diagnostic or therapeutic use. The GL1 antibody has been reported for use in flow cytometric analysis, and immunoprecipitation. It has also been reported in blocking of CD86 in functional studies. (Please use Functional Grade purified GL1, cat. 16-0862, in functional assays.)

Applications Tested

The GL1 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 0.5 µg per million cells in a 100 µl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

Cat. 12-0861 PE anti-mouse CD86 (B7-2) (clone PO3.1)

- Cat. 14-0861 Affinity Purified anti-mouse CD86 (B7-2) (clone PO3.1)
- Cat. 16-0861 Functional Grade Purified anti-mouse CD86 (B7-2) (clone PO3.1)
- Cat. 11-0862 FITC anti-mouse CD86 (B7-2) (clone GL1)
- Cat. 12-0862 PE anti-mouse CD86 (B7-2) (clone GL1)
- Cat. 13-0862 Biotin anti-mouse CD86 (B7-2) (clone GL1)
- Cat. 15-0862 PE-Cy5 anti-mouse CD86 (B7-2) (clone GL1)
- Cat. 16-0862 Functional Grade Purified anti-mouse CD86 (B7-2) (clone GL1)
- Cat. 17-0862 APC anti-mouse CD86 (B7-2) (clone GL1)
- Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
- Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
- Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
- Cat. 14-4321 Affinity Purified Rat IgG2a Isotype Control
- Cat. 11-4811 FITC Anti-Rat IgG
- Cat. 13-4813 Biotin Anti-Rat IgG (clone Polyclonal)

References

- Hathcock, K. S., G. Laszlo, et al. (1993). "Identification of an alternative CTLA-4 ligand costimulatory for T cell activation [see comments]." Science 262(5135): 905-7.
- Freeman, G. J., F. Borriello, et al. (1993). "Murine B7-2, an alternative CTLA4 counter-receptor that costimulates T cell proliferation and interleukin 2 production." J Exp Med 178(6): 2185-92.
- Inaba, K., M. Witmer-Pack, et al. (1994). "The tissue distribution of the B7-2 costimulator in mice: abundant expression on dendritic cells in situ and during maturation in vitro." J Exp Med 180(5): 1849-60.
- Hathcock, K. S., G. Laszlo, et al. (1994). "Comparative analysis of B7-1 and B7-2 costimulatory ligands: expression and function." J Exp Med 180(2): 631-40