

# CD86 (B7-2) Monoclonal Antibody (GL1), APC, eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	GL1
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_469418

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.06 µg/test	138 Publications

## Product Specific Information

**Description:** The GL1 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). 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.

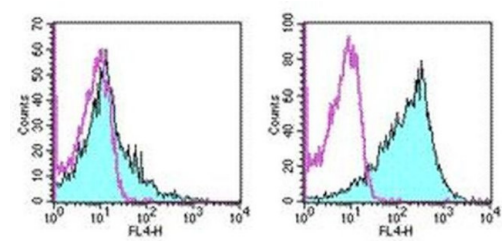
**Applications Reported:** The GL1 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** The GL1 antibody has been tested by flow cytometric analysis of resting and activated mouse splenocytes. This can be used at less than or equal to 0.06 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Excitation:** 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

Product Images For CD86 (B7-2) Monoclonal Antibody (GL1), APC, eBioscience™



**CD86 (B7-2) Antibody (17-0862-81) in Flow**  
Staining of unstimulated (left) or 3-day LPS-stimulated (right) C57BL/6 splenocytes with 0.03 µg of Rat IgG2a kappa Isotype Control APC (Product # 17-4321-81) (open histogram) or 0.03 µg of Anti-Mouse CD86 (B7-2) APC (filled histogram). Total viable cells were used for analysis.

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138 References

Flow Cytometry (138)

<p>Journal of orthopaedic research : official publication of the Orthopaedic Research Society</p> <p><b>Role of low-intensity pulsed ultrasound in regulating macrophage polarization to accelerate tendon-bone interface repair.</b></p> <p>"Published figure using CD86 (B7-2) monoclonal antibody (Product # 17-0862-82) in Flow Cytometry"</p> <p>Authors: Xu Z,Li S,Wan L,Hu J,Lu H,Zhang T</p>	<p>Year 2023</p>
<p>Bioactive materials</p> <p><b>A platinum@polymer-catechol nanobroker enables radio-immunotherapy for crippling melanoma tumorigenesis, angiogenesis, and radioresistance.</b></p> <p>"Published figure using CD86 (B7-2) monoclonal antibody (Product # 17-0862-82) in Flow Cytometry"</p> <p>Authors: Li W,Yan J,Tian H,Li B,Wang G,Sang W,Zhang Z,Zhang X,Dai Y</p>	<p>Year 2023</p>

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