

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

## Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Rat, Mouse
Host/Isotype	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	GL1
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_467368

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	6 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	0.5 µg/test	124 Publications
ELISA (ELISA)	-	1 Publication
Immunoprecipitation (IP)	Assay-Dependent	1 Publication
Neutralization (Neu)	Assay-Dependent	2 Publications
Functional Assay (FN)	Assay-Dependent	-

## 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:** This GL1 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistology staining of frozen tissue sections. It has also been reported in blocking of CD86 in functional studies. (Please use Functional Grade purified GL1, cat. 16-0862, in functional assays.).

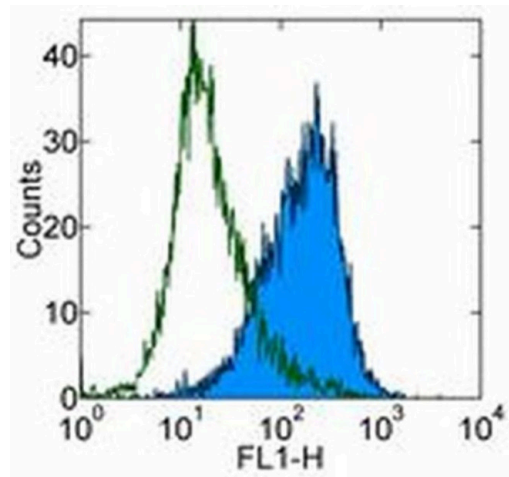
Applications Tested: The GL1 antibody has been tested by flow cytometric analysis of resting and activated mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<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.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

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



**CD86 (B7-2) Antibody (14-0862-82) in Flow**  
Staining of 3-day LPS-stimulated BALB/c splenocytes with 0.25 µg of Rat IgG2a kappa Isotype Control Purified (Product # 14-4321-82) (open histogram) or 0.25 µg of Purified Anti-Mouse CD86 (B7-2) (filled histogram) followed by Anti-Rat IgG FITC (Product # 11-4811-85). Total viable cells were used for analysis.

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Immunohistochemistry (6)

Frontiers in immunology	Year 2023
<b>Tumor necrosis factor--primed mesenchymal stem cell-derived exosomes promote M2 macrophage polarization <i>via</i> Galectin-1 and modify intrauterine adhesion on a novel murine model.</b>	Species Mouse
"14-0862-82 was used in Immunohistochemistry-immunofluorescence to propose an innovative mouse model and a better MSC treatment strategy for IUA."	
Authors: Li J,Pan Y,Yang J,Wang J,Jiang Q,Dou H,Hou Y	
Journal of inflammation (London, England)	Year 2022
<b>Cannabinoid 2 receptor attenuates inflammation during skin wound healing by inhibiting M1 macrophages rather than activating M2 macrophages.</b>	
"Published figure using CD86 (B7-2) monoclonal antibody (Product # 14-0862-82) in Immunohistochemistry"	
Authors: Du Y,Ren P,Wang Q,Jiang SK,Zhang M,Li JY,Wang LL,Guan DW	

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Immunohistochemistry (Paraffin) (1)

Human molecular genetics	Year 2015
<b>Loss of MyD88 alters neuroinflammatory response and attenuates early Purkinje cell loss in a spinocerebellar ataxia type 6 mouse model.</b>	Species Mouse
"14-0862 was used in Immunohistochemistry on paraffin embedded tissues to suggest that early neuroinflammatory response may play an important role in the pathogenesis of SCA6."	
Authors: Aikawa T,Mogushi K,Iijima-Tsutsui K,Ishikawa K,Sakurai M,Tanaka H,Mizusawa H,Watase K	

Immunocytochemistry (4)

Bioactive materials	Year 2022
<b>A ROS-responsive, self-immolative and self-reporting hydrogen sulfide donor with multiple biological activities for the treatment of myocardial infarction.</b>	Species Rat
"14-0862-82 was used in Immunocytochemistry to conclude that this ROS-responsive, self-immolative, and fluorescent H2S donor can serve as a new theranostic agent for MI and other ischemic diseases."	
Authors: Yao M,Lu Y,Shi L,Huang Y,Zhang Q,Tan J,Hu P,Zhang J,Luo G,Zhang N	
	Dilution 1:500

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More applications with references on thermofisher.com

- Flow (124)
- ELISA (1)
- IP (1)
- Neu (2)

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