

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	GL1
Conjugate	Biotin
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, store in dark, DO NOT FREEZE!
RRID	AB_466525

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	4 Publications
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	0.25 µg/test	92 Publications
Functional Assay (FN)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

## 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.

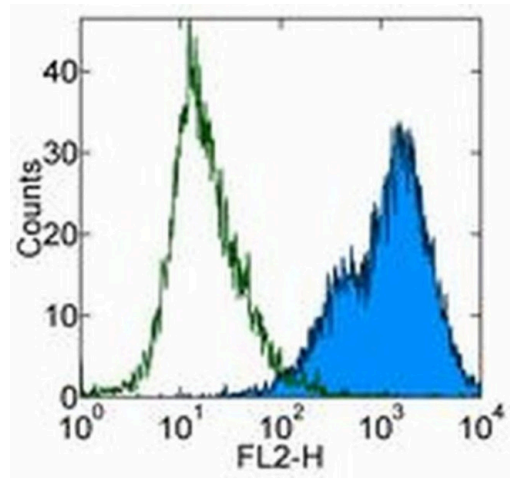
**Applications Reported:** The GL1 antibody has been reported for use in flow cytometric analysis.

**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 0.25 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.

Filtration: 0.2 µm post-manufacturing filtered.

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



**CD86 (B7-2) Antibody (13-0862-82) in Flow**  
Staining of 3-day LPS-stimulated BALB/c splenocytes with 0.125 µg of Rat IgG2a kappa Isotype Control Biotin (Product # 13-4321-82) (open histogram) or 0.125 µg of Anti-Mouse CD86 (B7-2) Biotin (filled histogram) followed by Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

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Western Blot (1)

<p>Journal of leukocyte biology</p> <p><b>Dynamics of dendritic cell-derived vesicles: high-resolution flow cytometric analysis of extracellular vesicle quantity and quality.</b></p> <p>"13-0862 was used in Western Blotting to study the dynamics of extracellular vesicle secretion and composition from dendritic cells.."</p> <p>Authors: Nolte-t Hoen EN,van der Vlist EJ,de Boer-Brouwer M,Arkesteijn GJ,Stoorvogel W,Wauben MH</p>	<p>Year 2013</p> <p>Species Mouse</p>
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Immunohistochemistry (4)

<p>Journal of inflammation (London, England)</p> <p><b>Cannabinoid 2 receptor attenuates inflammation during skin wound healing by inhibiting M1 macrophages rather than activating M2 macrophages.</b></p> <p>"Published figure using CD86 (B7-2) monoclonal antibody (Product # 13-0862-82) in Immunohistochemistry"</p> <p>Authors: Du Y,Ren P,Wang Q,Jiang SK,Zhang M,Li JY,Wang LL,Guan DW</p>	<p>Year 2022</p>
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<p>Frontiers in cellular neuroscience</p> <p><b>Temporal Characterization of Microglia/Macrophage Phenotypes in a Mouse Model of Neonatal Hypoxic-Ischemic Brain Injury.</b></p> <p>"Published figure using CD86 (B7-2) monoclonal antibody (Product # 13-0862-82) in Immunofluorescence"</p> <p>Authors: Hellström Erkenstam N,Smith PL,Fleiss B,Nair S,Svedin P,Wang W,Boström M,Gressens P,Hagberg H,Brown KL,Sävman K,Mallard C</p>	<p>Year 2022</p>
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Immunocytochemistry (4)

<p>Cell reports</p> <p><b>Antigen presentation between T cells drives Th17 polarization under conditions of limiting antigen.</b></p> <p>"Published figure using CD86 (B7-2) monoclonal antibody (Product # 13-0862-82) in Immunocytochemistry"</p> <p>Authors: Boccasavia VL,Bovolenta ER,Villanueva A,Borroto A,Oeste CL,van Santen HM,Prieto C,Alonso-López D,Díaz-Muñoz MD,Batista FD,Alarcón B</p>	<p>Year 2021</p>
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More applications with references on thermofisher.com

- Flow (92)
- FN (1)
- Misc (1)

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