

CD86 (B7-2) Monoclonal Antibody (IT2.2), Functional Grade, eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	IT2.2
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Storage conditions	4° C
RRID	AB_469028

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	9 Publications
Neutralization (Neu)	Assay-Dependent	1 Publication
Functional Assay (FN)	Assay-Dependent	-
Inhibition Assays (IA)	-	1 Publication

Product Specific Information

Description: The IT2.2 monoclonal antibody reacts with human 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 levels 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. 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 IT2.2 antibody has been reported for use in flow cytometric analysis. IT2.2 has also been reported in blocking of CD86 in functional studies.

Applications Tested: The IT2.2 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

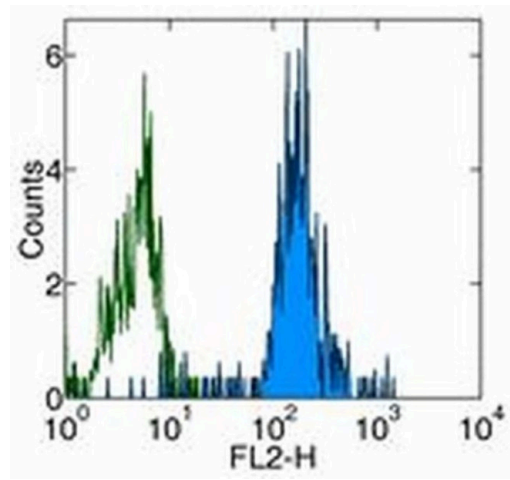
Filtration: 0.2 µm post-manufacturing filtered.

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

Endotoxin Level: Less than 0.001 ng/μg antibody, as determined by LAL assay.

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

Product Images For CD86 (B7-2) Monoclonal Antibody (IT2.2), Functional Grade, eBioscience™



CD86 (B7-2) Antibody (16-0869-81) in Flow
Surface staining of normal human peripheral blood cells with Anti-Human CD86 (B7-2) PE. Appropriate isotype controls were used (open histogram). Cells in the monocyte population were used for analysis.

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Immunocytochemistry (1)

<p>Biochemistry and biophysics reports</p> <p>Pentraxin-3 regulates the inflammatory activity of macrophages.</p> <p>"Published figure using CD86 (B7-2) monoclonal antibody (Product # 16-0869-81) in Flow Cytometry"</p> <p>Authors: Shiraki A,Kotooka N,Komoda H,Hirase T,Oyama JI,Node K</p>	<p>Year 2016</p> <p>Species Human</p>
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Flow Cytometry (9)

<p>Frontiers in cellular and infection microbiology</p> <p>Dendritic Cell Maturation Regulates TSPAN7 Function in HIV-1 Transfer to CD4⁺ T Lymphocytes.</p> <p>"Published figure using CD86 (B7-2) monoclonal antibody (Product # 16-0869-81) in Flow Cytometry"</p> <p>Authors: Perot BP,García-Paredes V,Luka M,Ménager MM</p>	<p>Year 2021</p>
<p>Frontiers in pharmacology</p> <p>Ginsenoside Rg3 Mitigates Atherosclerosis Progression in Diabetic apoE^{-/-} Mice by Skewing Macrophages to the M2 Phenotype.</p> <p>"Published figure using CD86 (B7-2) monoclonal antibody (Product # 16-0869-81) in Flow Cytometry"</p> <p>Authors: Guo M,Xiao J,Sheng X,Zhang X,Tie Y,Wang L,Zhao L, Ji X</p>	<p>Year 2020</p>

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Neutralization (1)

<p>Infection and immunity</p> <p>Mycobacterium tuberculosis-induced gamma interferon production by natural killer cells requires cross talk with antigen-presenting cells involving Toll-like receptors 2 and 4 and the mannose receptor in tuberculous pleurisy.</p> <p>"16-0869 was used in Blocking experiments to study how the interplay between M. tuberculosis and NK cells/APC triggering IFN-gamma may play a beneficial role in tuberculous pleurisy by helping to maintain a type 1 profile."</p> <p>Authors: Schierloh P,Yokobori N,Alemán M,Landoni V,Geffner L,Musella RM,Castagnino J,Baldini M,Abbate E,de la Barrera SS,Sasiain MC</p>	<p>Year 2007</p> <p>Species Human</p>
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More applications with references on thermofisher.com

IA (1)

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