

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

Product Details

Size	100 µg
Species Reactivity	Human
Published Species	Human, Rhesus monkey
Host/Isotype	Mouse / IgG2b, kappa
Class	Monoclonal
Type	Antibody
Clone	IT2.2
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_467372

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	18 Publications
Neutralization (Neu)	Assay-Dependent	2 Publications
Functional Assay (FN)	Assay-Dependent	-

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. (Please use Functional Grade purified IT2.2, Product # 16-0869 , in functional assays.).

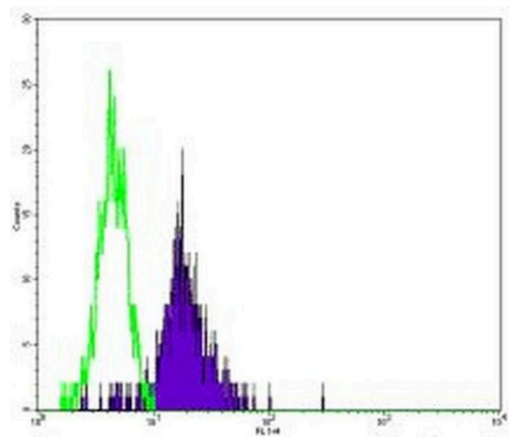
Applications Tested: The IT2.2 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number 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.

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 (IT2.2), eBioscience™



CD86 (B7-2) Antibody (14-0869-82) in Flow
Normal human peripheral blood stained with Anti-Human CD86 (B7-2) Purified followed by Anti-Mouse IgG FITC (Product # 11-4011-85. Appropriate isotype controls were used (open histogram). Cells in the monocyte gate were analyzed.

[View more figures on thermofisher.com](https://thermofisher.com)

Immunocytochemistry (1)

Biochemistry and biophysics reports

Pentraxin-3 regulates the inflammatory activity of macrophages.

"Published figure using CD86 (B7-2) monoclonal antibody (Product # 14-0869-82) in Immunocytochemistry"

Authors: Shiraki A,Kotooka N,Komoda H,Hirase T,Oyama JI,Node K

Year
2016

Species
Human

Flow Cytometry (18)

PeerJ

SARS-CoV-2 Delta (B.1.617.2) variant replicates and induces syncytia formation in human induced pluripotent stem cell-derived macrophages.

"Published figure using CD86 (B7-2) monoclonal antibody (Product # 14-0869-82) in Flow Cytometry"

Authors: Thaweerattanasinp T,Wanitchang A,Saenboonrueng J,Srisutthisamphan K,Wanasen N,Sungsuwan S, Jongkaewwattana A,Chailangkarn T

Year
2023

Cells

TcpC Inhibits M1 but Promotes M2 Macrophage Polarization via Regulation of the MAPK/NF-B and Akt/STAT6 Pathways in Urinary Tract Infection.

"Published figure using CD86 (B7-2) monoclonal antibody (Product # 14-0869-82) in Flow Cytometry"

Authors: Fang J,Ou Q,Wu B,Li S,Wu M,Qiu J,Cen N,Hu K,Che Y,Ma Y,Pan J

Year
2022

[View more Flow references on thermofisher.com](#)

Neutralization (2)

PLoS pathogens

Pomalidomide restores immune recognition of primary effusion lymphoma through upregulation of ICAM-1 and B7-2.

"Published figure using CD86 (B7-2) monoclonal antibody (Product # 14-0869-82) in Neutralization"

Authors: Shrestha P,Davis DA,Jaeger HK,Stream A,Aisabor AI,Yarchoan R

Year
2021

More applications with references on thermofisher.com

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