

CD86 (B7-2) Monoclonal Antibody (IT2.2), PE-Cyanine7, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), PE-Cyanine7, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	IT2.2
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 nm
Form	Liquid
Concentration	5 μL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2573374

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 μL (0.125 μg)/test	16 Publications

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: This IT2.2 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This IT2.2 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 μ L (0.125 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

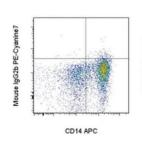
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-822-49) (100 µL of cell sample + 100 µL of IC Fixation

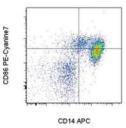
Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD86 (B7-2) Monoclonal Antibody (IT2.2), PE-Cyanine7, eBioscience™





CD86 (B7-2) Antibody (25-0869-42) in Flow

Staining of normal human peripheral blood cells with Anti-Human CD14 APC (Product # 17-0149-42) and Mouse IgG2b K Isotype Control PE-Cyanine7 (Product # 25-4732-81) (left) or Anti-Human CD86 (B7-2) PE-Cyanine7 (right). Cells in the monocyte gate were used for analysis.

View more figures on thermofisher.com

□ 16 References

Flow Cytometry (16)

International journal of molecular sciences

Engineered Human Dendritic Cell Exosomes as Effective Delivery System for Immune Modulation.

"25-0869-42 was used in Flow cytometry/Cell sorting to report in a mouse model of periodontitis that custom murine DC-derived exo subtypes could reprogram the immune response toward a bone-sparing or bone-loss phenotype, depending on immune profile."

Authors: Elsayed R,Elashiry M,Tran C,Yang T,Carroll A,Liu Y,Hamrick M,Cutler CW

Year 2023

Species Human

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 # 25-0869-42) in Flow Cytometry"

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

Year 2023

View more Flow references on thermofisher.com

More applications with references on thermofisher.com

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