

CD86 (B7-2) Monoclonal Antibody (IT2.2), PE-Cyanine5, eBioscience

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human, Rhesus monkey
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), PE-Cyanine5, eBioscience
Class	Monoclonal
Type	Antibody
Clone	IT2.2
Conjugate	PE-Cyanine5
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_11042003

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	12 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: The 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 µL (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.

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

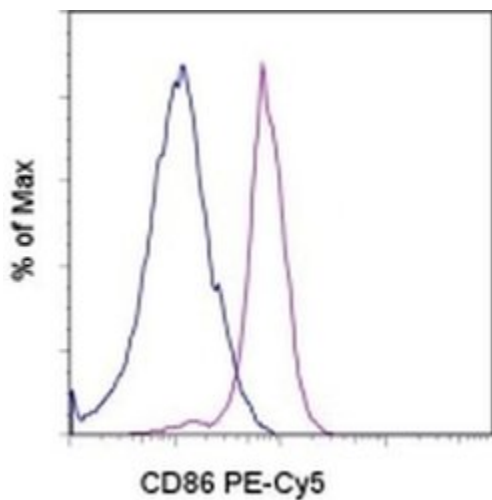
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix

/Lyse Solution (cat. 00-5333) 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: 667 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-Cyanine5, eBioscience



CD86 (B7-2) Antibody (15-0869-42) in Flow

Staining of normal human peripheral blood cells with Mouse IgG2b Isotype Control PE-Cyanine5 (Product # 15-4732-42) (blue histogram) or Anti-Human CD86 (B7-2) PE-Cyanine5 (purple histogram). Cells in the monocyte gate were used for analysis.

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

12 References

Flow Cytometry (12)

Frontiers in cellular and infection microbiology

Dendritic Cell Maturation Regulates TSPAN7 Function in HIV-1 Transfer to CD4⁺ T Lymphocytes.

"Published figure using CD86 (B7-2) monoclonal antibody (Product # 15-0869-42) in Flow Cytometry"

Authors: Perot BP,García-Paredes V,Luka M,Ménager MM

Species
Not Applicable

Dilution
Not Cited

Year
2021

Blood

Omental implantation of BOECs in hemophilia dogs results in circulating FVIII antigen and a complex immune response.

"15-0869 was used in Flow cytometry/Cell sorting to investigate the immune response to treatment with FVIII-expressing autologous BOECs."

Authors: Ozelo MC,Vidal B,Brown C,Notley C,Hegadorn C,Webster S,Harpell L,Ahlin J,Winterborn A,Handforth J, Arruda VR,Hough C,Lillicrap D

Species
Human

Dilution
Not Cited

Year
2014

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

More applications with references on thermofisher.com

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