

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

Product Details	
Size	25 Tests
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	IT2.2
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4°C, store in dark, DO NOT FREEZE!
RRID	AB_10804536

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	62 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.

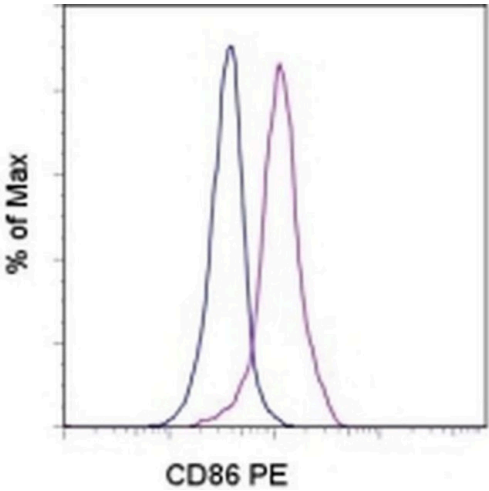
**Applications Reported:** The IT2.2 antibody has been reported for use in flow cytometric analysis.

**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 (0.5 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.

**Excitation:** 488-561 nm; **Emission:** 578 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, eBioscience™



**CD86 (B7-2) Antibody (12-0869-41) in Flow**  
Staining of normal human peripheral blood cells with Mouse IgG2b kappa Isotype Control PE (Product # 12-4732-81) (blue histogram) or Anti-Human CD86 (B7-2) PE (purple histogram). Cells in the monocyte gate were used for analysis.

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63 References

Immunocytochemistry (1)

<p><b>Biochemistry and biophysics reports</b></p> <p><b>Pentraxin-3 regulates the inflammatory activity of macrophages.</b></p> <p>"12-0869 was used in Immunocytochemistry to investigate the function of pentraxin-3 in macrophages in vitro."</p> <p>Authors: Shiraki A,Kotooka N,Komoda H,Hirase T,Oyama JI,Node K</p>	<p><b>Year</b> 2016</p> <p><b>Species</b> Human</p> <p><b>Dilution</b> 1:5</p>
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Flow Cytometry (62)

<p><b>NPJ precision oncology</b></p> <p><b>Exosomal circRHCG promotes breast cancer metastasis via facilitating M2 polarization through TFEB ubiquitination and degradation.</b></p> <p>"Published figure using CD86 (B7-2) monoclonal antibody (Product # 12-0869-42) in Flow Cytometry"</p> <p>Authors: Shen HY,Xu JL,Zhang W,Chen QN,Zhu Z,Mao Y</p>	<p><b>Year</b> 2024</p>
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<p><b>Cell death &amp; disease</b></p> <p><b>USP7 inhibits the progression of nasopharyngeal carcinoma via promoting SPLUNC1-mediated M1 macrophage polarization through TRIM24.</b></p> <p>"Published figure using CD86 (B7-2) monoclonal antibody (Product # 12-0869-42) in Flow Cytometry"</p> <p>Authors: Liu H,Tang L,Gong S,Xiao T,Yang H,Gu W,Wang H,Chen P</p>	<p><b>Year</b> 2023</p>
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[View more Flow references on thermofisher.cn](#)

More applications with references on thermofisher.cn

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