

## PE/Cy5 anti-human CD86

**Catalog # / Size:** 305407 / 25 tests  
305408 / 100 tests

**Clone:** IT2.2

**Isotype:** Mouse IgG2b,  $\kappa$

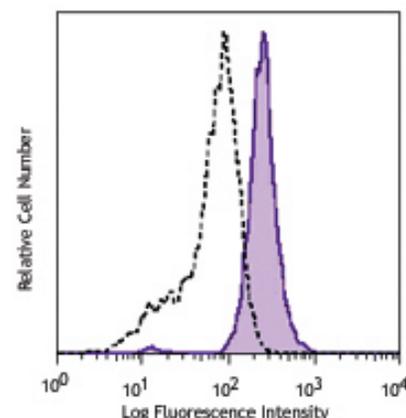
**Workshop Number:** VI CD86.8

**Reactivity:** Human, **Cross-Reactivity:** Baboon, Capuchin Monkey, Common Marmoset, Cotton-topped Tamarin, Chimpanzee, Cynomolgus, Rhesus

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE/Cy5 under optimal conditions. The solution is free of unconjugated PE/Cy5 and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood monocytes were stained with CD86 (clone IT2.2) PE/Cy5 (filled histogram) or mouse IgG2b,  $\kappa$  PE/Cy5 isotype control (open histogram).

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections, Western blotting<sup>3</sup>, and blocking of T cell activation<sup>2,4,5</sup>. The LEAF™ Purified antibody (Endotoxin <0.1 EU/ $\mu$ g, Azide-Free, 0.2  $\mu$ m filtered) is recommended for functional assays (Cat. No. 305410).

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**Application References:**

1. Kishimoto T, *et al.* Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. London.
2. Dieu M. 1998. *J. Exp. Med.* 188:373. (Block)
3. Esser M, *et al.* 2001. *J. Virol.* 75:6173. (WB)
4. Jeannin P, *et al.* 1999. *J. Immunol.* 162:2044. (Block)
5. Kapsogeorgou EK, *et al.* 2001. *J. Immunol.* 166:3107. (Block)
6. Geissmann F, *et al.* 2001. *Blood* 97:1241. (IHC)

**Description:** CD86 is an 80 kD immunoglobulin superfamily member also known as B7-2, B70, and Ly-58. CD86 is expressed on activated B and T cells, monocytes/macrophages, dendritic cells, and astrocytes. CD86, along with CD80, is the ligand of CD28 and CD152 (CTLA-4). CD86 is expressed earlier in the immune response than CD80. CD86 has also been shown to be involved in immunoglobulin class-switching and triggering of NK cell-mediated cytotoxicity. CD86 binds to CD28 to transduce costimulatory signals for T cell activation, proliferation, and cytokine production. CD86 can also bind to CD152, also known as CTLA-4, to deliver an inhibitory signal to T cells.

**Antigen References:**

1. Hathcock K, *et al.* 1996. *Adv. Immunol.* 62:131.
2. June C, *et al.* 1994. *Immunol. Today* 15:321.

Related Products:	Product	Clone	Application
	PE/Cy5 anti-human CD80	2D10	FC
	PE/Cy5 anti-human CD28	CD28.2	FC
	PE/Cy5 Mouse IgG2b, $\kappa$ Isotype Ctrl	MPC-11	FC, ICFC
	Cell Staining Buffer		FC, ICC, ICFC
	RBC Lysis Buffer (10X)		FC, ICFC
	PE anti-human CD275 (B7-H2, ICOSL)	2D3	FC
	Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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