Product Data Sheet

PE/Cy5 anti-human CD86

Catalog # / Size: 2127040 / 100 tests

2127035 / 25 tests

Clone: IT2.2

Isotype: Mouse IgG2b, κ

Reactivity: Human

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.

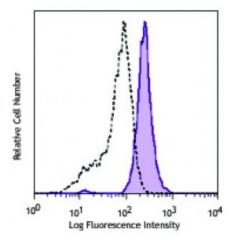
Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Workshop Number: VI CD86.8

Concentration: Lot-specific



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

Applications:

Applications: Flow Cytometry

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 microL to 5 microL per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for antimal performance for each application

optimal performance for each application.

Application Notes:

Additional reported applications (for the relevant formats) include:

immunohistochemical staining of acetone-fixed frozen tissue sections⁶, Western blotting3, and blocking of T cell activation^{2,4,5}. The LEAF $^{\text{m}}$ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for

functional assays (Cat. No. 305410).

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 bind to CD152 as well, also

known as CTLA-4, to deliver an inhibitory signal to T cells.

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