

FITC anti-human CD86 Antibody

Catalog# / Size	374203 / 25 tests 374204 / 100 tests
Clone	BU63
Regulatory Status	RUO
Workshop	HCDM listed
Other Names	B7-2, B70, Ly-58
Isotype	Mouse IgG1, κ
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.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	ARH 77 (B lymphoblastoid cell line).
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
Excitation Laser	Blue Laser (488 nm)
Product Citations	<ol style="list-style-type: none">1. Bourdely P, <i>et al.</i> 2020. Immunity. 53(2):335-352. PubMed2. M?czy?ska J, <i>et al.</i> 2020. Cell Death Dis. 1.073611111. PubMed3. Jost M, <i>et al.</i> 2021. eLife. 10:00. PubMed4. Obradovic A, <i>et al.</i> 2021. Cell. 184(11):2988-3005.e16. PubMed
RRID	AB_2721573 (BioLegend Cat. No. 374203) AB_2721574 (BioLegend Cat. No. 374204)

Antigen Details

Structure	Ig superfamily, single-chain transmembrane glycoprotein, 80 kD
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Distribution	Monocytes/macrophages, activated B cells and T cells, dendritic cells
Function	T Cell activation
Interaction	C-Jun, NFκB
Ligand/Receptor	CD28, CD152
Cell Type	B cells, Dendritic cells, Macrophages, Monocytes, T cells
Biology Area	Cell Biology, Costimulatory Molecules, Immunology, Neuroscience, Neuroscience Cell Markers
Molecular Family	CD Molecules, Immune Checkpoint Receptors
Antigen References	1. Hathcock K, <i>et al.</i> 1996. <i>Adv. Immunol.</i> 62:131. 2. June C, <i>et al.</i> 1994. <i>Immunol. Today</i> 15:321.
Gene ID	942

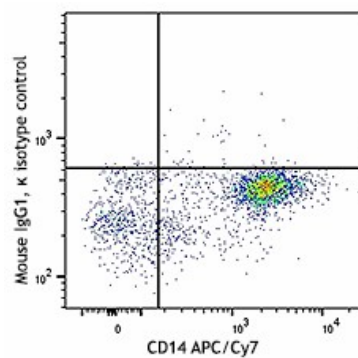
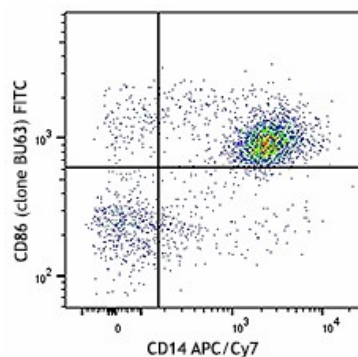
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD86, FITC anti-human CD86, PE anti-human CD86, APC anti-human CD86, PE/Cyanine7 anti-human CD86, Brilliant Violet 421™ anti-human CD86, Brilliant Violet 605™ anti-human CD86, PerCP/Cyanine5.5 anti-human CD86, PE/Dazzle™ 594 anti-human CD86

Product Data



Human peripheral blood monocytes stained with CD14 APC/Cy7 and human CD86 (clone BU63, top) FITC or Mouse IgG1, κ FITC isotype control (bottom).

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