

Spark PLUS B550™ anti-human CD86 Antibody

Catalog# / Size	381013 / 25 tests 381014 / 100 tests
Clone	W17233E
Regulatory Status	RUO
Other Names	B7-2, B70, Ly-58
Isotype	Rat IgG2b, κ
Description	CD86, also known as B7-2, B70, and Ly-58, is an 80 kD immunoglobulin superfamily member. 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.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	hCD86 Recombinant protein (full)
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 Spark PLUS B550™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
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. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS B550™ has a maximum excitation of 516 nm and a maximum emission of 540 nm.
Excitation Laser	Blue Laser (488 nm)
RRID	AB_3683421 (BioLegend Cat. No. 381013) AB_3683421 (BioLegend Cat. No. 381014)

Antigen Details

Structure	Ig superfamily, single-chain transmembrane glycoprotein, 80 kD
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	<ol style="list-style-type: none"> Hathcock KS, <i>et al.</i> 1996. <i>Adv Immunol.</i> 62:131-66. June CH, <i>et al.</i> 1994. <i>Immunol Today.</i> 15:321-31.
Gene ID	942

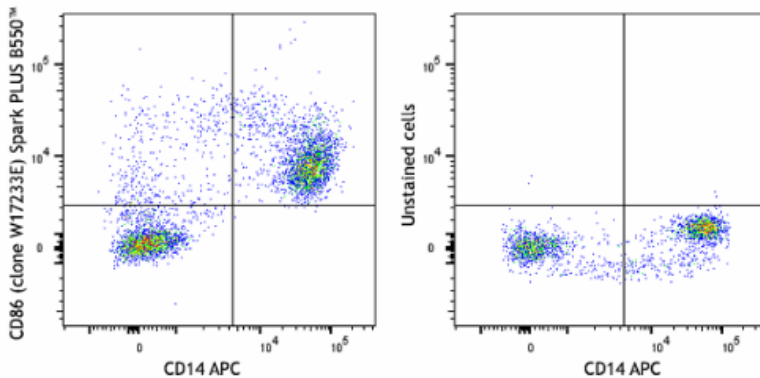
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD86, APC anti-human CD86, Brilliant Violet 421™ anti-human CD86, PE/Cyanine7 anti-human CD86, PE anti-human CD86, Brilliant Violet 785™ anti-human CD86, Spark PLUS B550™ anti-human CD86 Antibody

Product Data



Human peripheral blood monocytes were stained with anti-human CD14 (clone HCD14) APC and anti-human CD86 (clone W17233E) Spark PLUS B550™ (left) or stained with anti-human CD14 (clone HCD14) APC only (right).

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