

Brilliant Violet 421™ anti-human CD86 Antibody

Catalog# / Size	374211 / 25 tests 374212 / 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 Brilliant Violet 421™ 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	<p>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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.</p> <p>Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
Excitation Laser	Violet Laser (405 nm)
RRID	AB_2728393 (BioLegend Cat. No. 374211) AB_2728394 (BioLegend Cat. No. 374212)

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	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

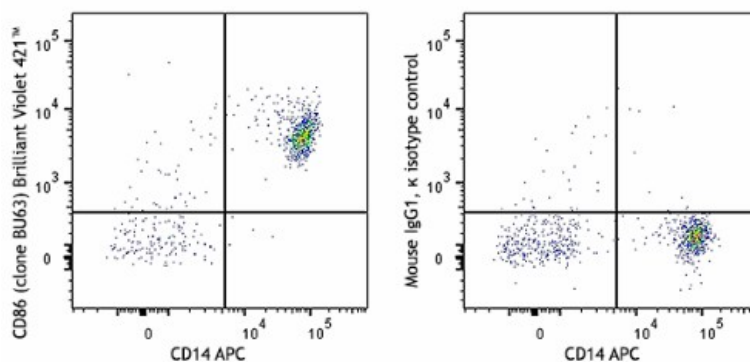
Related Protocols

[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 and CD86 (clone BU63, left) Brilliant Violet 421™ or Mouse IgG1, κ Brilliant Violet 421™ isotype control (right).

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