

## FITC anti-human CD86 Antibody

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

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	ARH 77 (B lymphoblastoid cell line).
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . 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.
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>Product Citations</b>	<ol style="list-style-type: none"> <li>1. Yan F, <i>et al.</i> 2022. <i>Cancer Discov.</i> 12:792. <a href="#">PubMed</a></li> <li>2. Vereertbrugghen A, <i>et al.</i> 2021. <i>Front Oncol.</i> 11:598319. <a href="#">PubMed</a></li> <li>3. M?czy?ska J, <i>et al.</i> 2020. <i>Cell Death Dis.</i> 1.073611111. <a href="#">PubMed</a></li> <li>4. Guo Z, <i>et al.</i> 2022. <i>NPJ Precis Oncol.</i> 6:34. <a href="#">PubMed</a></li> <li>5. Rao X, <i>et al.</i> 2022. <i>Cell Death Dis.</i> 13:891. <a href="#">PubMed</a></li> <li>6. Bourdely P, <i>et al.</i> 2020. <i>Immunity.</i> 53(2):335-352. <a href="#">PubMed</a></li> <li>7. Obradovic A, <i>et al.</i> 2021. <i>Cell.</i> 184(11):2988-3005.e16. <a href="#">PubMed</a></li> <li>8. Jost M, <i>et al.</i> 2021. <i>eLife.</i> 10:00. <a href="#">PubMed</a></li> <li>9. Gu C, <i>et al.</i> 2021. <i>Front Immunol.</i> 12:678036. <a href="#">PubMed</a></li> <li>10. Du B, <i>et al.</i> 2020. <i>Scand J Immunol.</i> 91:e12872. <a href="#">PubMed</a></li> <li>11. Wang X, <i>et al.</i> 2022. <i>Cancer Gene Ther.</i> Online ahead of print. <a href="#">PubMed</a></li> <li>12. Luque-Martin R, <i>et al.</i> 2021. <i>J Immunol.</i> 207:555. <a href="#">PubMed</a></li> </ol>
<b>RRID</b>	AB_2721573 (BioLegend Cat. No. 374203)

## Antigen Details

<b>Structure</b>	Ig superfamily, single-chain transmembrane glycoprotein, 80 kD
<b>Distribution</b>	Monocytes/macrophages, activated B cells and T cells, dendritic cells
<b>Function</b>	T Cell activation
<b>Interaction</b>	C-Jun, NFκB
<b>Ligand/Receptor</b>	CD28, CD152
<b>Cell Type</b>	B cells, Dendritic cells, Macrophages, Monocytes, T cells
<b>Biology Area</b>	Cell Biology, Costimulatory Molecules, Immunology, Neuroscience, Neuroscience Cell Markers
<b>Molecular Family</b>	CD Molecules, Immune Checkpoint Receptors
<b>Antigen References</b>	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.
<b>Gene ID</b>	<a href="#">942</a>

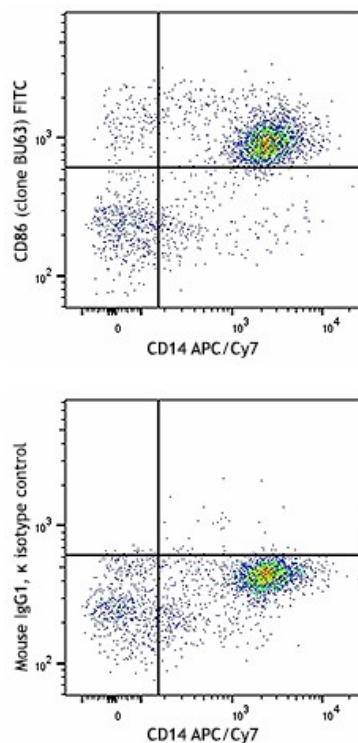
## Related Protocols

[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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