

Spark PLUS V475™ anti-mouse CD86 Antibody

Catalog# / Size	159221 / 25 µg
Clone	A17199A
Regulatory Status	RUO
Other Names	B7-2, B70, Ly-58
Isotype	Rat IgG2a, 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, macrophages, dendritic cells, and astrocytes. CD86, along with CD80, is a 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 co-stimulatory 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	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Recombinant mouse CD86
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with Spark PLUS V475™ under optimal conditions.
Concentration	0.2 mg/mL
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 ≤ 0.25 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS V475™ has a maximum excitation of 404 nm and a maximum emission of 475 nm.
Excitation Laser	Violet Laser (405 nm)
Application Notes	Clone A17199A is able to completely block the binding of clone PO3 to CD86.

Antigen Details

Structure	Ig superfamily, 80 kD
Distribution	B cells and T cells (upregulated upon activation), macrophages, dendritic cells, and astrocytes
Function	T cell costimulation, Ig class-switching, NK cell cytotoxicity

Interaction	Astrocytes, B cells, Dendritic cells, Macrophages, T cells, Tregs
Ligand/Receptor	CD28, CD152 (CTLA-4)
Cell Type	Astrocytes, B cells, Dendritic cells, Macrophages, T cells, Tregs
Biology Area	Cell Biology, Costimulatory Molecules, Immunology, Neuroscience, Neuroscience Cell Markers
Molecular Family	CD Molecules, Immune Checkpoint Receptors

Antigen References

1. Barclay A, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
2. Hathcock KS, *et al.* 1993. *Science* 262:905.
3. Freeman GJ, *et al.* 1993. *Science* 262:907.
4. Carreno BM and Collins M. 2002. *Annu. Rev. Immunol.* 20:29.

Gene ID [16182](#)

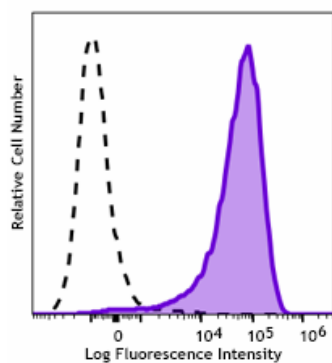
Related Protocols

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

Other Formats

Spark Red™ 718 anti-mouse CD86, PE/Cyanine7 anti-mouse CD86, PE/Dazzle™ 594 anti-mouse CD86, FITC anti-mouse CD86, PerCP/Cyanine5.5 anti-mouse CD86, Alexa Fluor® 700 anti-mouse CD86, APC anti-mouse CD86, APC/Cyanine7 anti-mouse CD86, Spark UV™ 387 anti-mouse CD86 (Flexi-Fluor™), Spark YG™ 593 anti-mouse CD86 (Flexi-Fluor™), PE anti-mouse CD86, Spark YG™ 581 anti-mouse CD86 (Flexi-Fluor™), Spark PLUS V475™ anti-mouse CD86 Antibody, Spark NIR™ 685 anti-mouse CD86 (Flexi-Fluor™), Purified anti-mouse CD86

Product Data



LPS-stimulated (3 days) C57BL/6 mouse splenocytes were stained with anti-mouse CD86 (clone A17199A) Spark PLUS V475™ (filled histogram). Open histogram represents unstained cells.

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