

PE/Fire™ 744 anti-human CD80 Antibody

Catalog# / Size	375413 / 25 tests 375414 / 100 tests
Clone	W17149D
Regulatory Status	RUO
Other Names	B7-1, B7, BB1
Isotype	Rat IgG2a, κ
Description	CD80, also known as B7-1, B7, and BB1, is a 60 kD single chain type I glycoprotein belonging to the immunoglobulin superfamily. CD80 is expressed on activated B and T cells, macrophages, and dendritic cells. CD80 binds to CD28 and CD152 (CTLA-4). Along with CD86, CD80 plays a critical role in regulation of T cell activation. The interaction of CD80 with CD28 provides a potent costimulatory signal for T cell activation through the CD3 complex, while its interaction with CTLA-4 provides an inhibitory signal for T cell activation.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	RBL1 cells stably transfected with human CD80 (full length)
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 PE/Fire™ 744 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	<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. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>True-Stain Monocyte Blocker™ (Cat No. 426102) is recommended to minimize non-specific staining of PE/Fire™ 744 on monocytes and macrophages.</p> <p>* PE/Fire™ 744 has a maximum excitation of 565 nm and a maximum emission of 744 nm.</p>
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
RRID	AB_3675092 (BioLegend Cat. No. 375413) AB_3675092 (BioLegend Cat. No. 375414)

Antigen Details

Structure	Ig superfamily, type I transmembrane glycoprotein, 60 kD
Distribution	Activated B cells and T cells, macrophages, and dendritic cells
Function	T cell costimulation

Ligand/Receptor	CD28, CD152 (CTLA-4)
Cell Type	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	<ol style="list-style-type: none"> 1. Lim TS, <i>et al.</i> 2012. PLoS One. 7(9): e45185. 2. Kamphorst, Alice O, <i>et al.</i> 2017. <i>Science</i>. 31;355(6332):1423-1427. 3. Zheng Y, <i>et al.</i> 2004. <i>J. Immunol.</i> 1;172(5):2778-84.
Gene ID	941

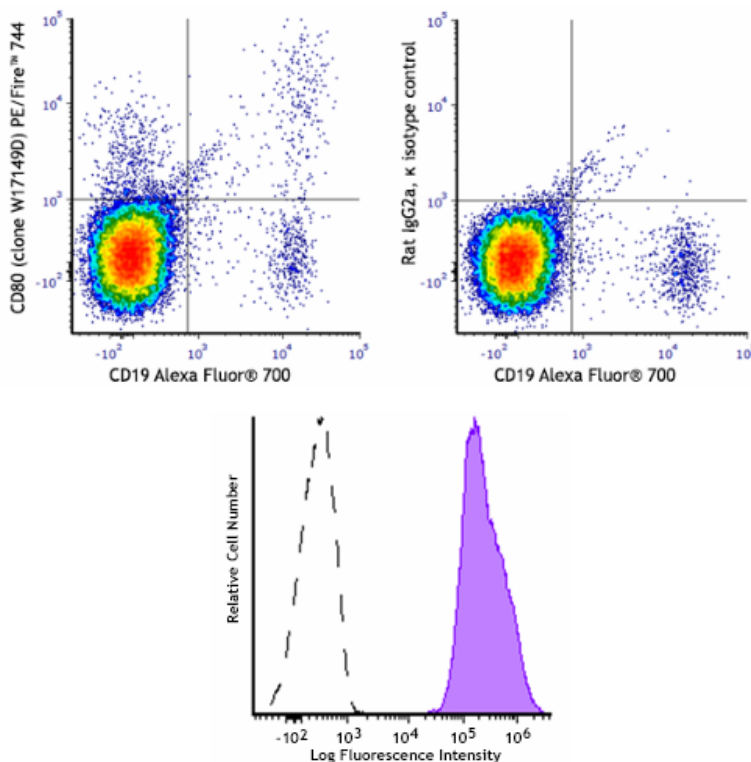
Related Protocols

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

Other Formats

Purified anti-human CD80 Antibody, APC anti-human CD80 Antibody, FITC anti-human CD80 Antibody, PE/Cyanine7 anti-human CD80, PE anti-human CD80, PerCP/Cyanine5.5 anti-human CD80, PE/Fire™ 744 anti-human CD80, Spark Blue™ 574 anti-human CD80 (Flexi-Fluor™), Spark Blue™ 550 anti-human CD80 (Flexi-Fluor™), Spark PLUS UV395™ anti-human CD80 Antibody

Product Data



Human peripheral blood mononuclear cells were stained with anti-human CD19 (clone HIB19) Alexa Fluor® 700 and anti-human CD80 (clone W17149D) PE/Fire™ 744 (left) or rat IgG2a, κ PE/Fire™ 744 isotype control (right).

Raji cell line was stained with anti-human CD80 (clone W17149D) PE/Fire™ 744 (filled histogram) or rat IgG2a, κ PE/Fire™ 744 isotype control (open histogram).

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