CD279 (PD-1) Monoclonal Antibody (RMP1-30), Super Bright™ 436, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RMP1-30
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2744824

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	5 Publications

Product Specific Information

Description: The RMP1-30 antibody reacts with mouse PD-1 (programmed death-1), a 55 kDa member of the Ig superfamily. PD-1 contains the immunoreceptor tyrosine-based inhibitory motif (ITIM) and plays a key role in peripheral tolerance and autoimmune disease in mice. PD-1 is expressed mainly on activated T and B lymphocytes. Two novel B7 Family members have been identified as PD-1 ligands, PD-L1 (B7-H1) and PD-L2 (B7-DC). Evidence reported to date suggests overlapping functions for these ligands and their constitutive expression on some normal tissues and upregulation on activated antigen-presenting cells. RMP1-30 does not block the binding of either B7-H1-Ig or B7-DC-Ig to PD-1 transfectants.

Applications Reported: This RMP1-30 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This RMP1-30 antibody has been tested by flow cytometric analysis of activated mouse splenocytes. This may be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

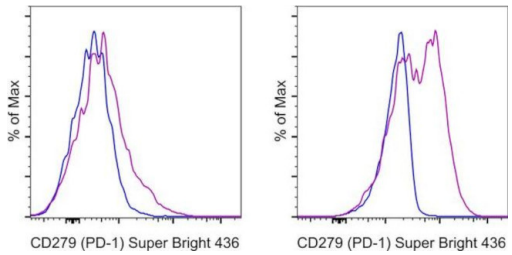
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD279 (PD-1) Monoclonal Antibody (RMP1-30), Super Bright™ 436, eBioscience™



CD279 (PD-1) Antibody (62-9981-82) in Flow
BALB/c mouse splenocytes were unstimulated (left) or stimulated with CD3e and CD28 Monoclonal Antibodies, Functional Grade (Product # 16-0031-85 and Product # 16-0281-85) (right). Cells were then stained with 0.5 µg of Rat IgG2b kappa Isotype Control, Super Bright 436 (Product # 62-4031-82) (blue histogram) or CD279 Monoclonal Antibody, Super Bright 436 (purple histogram).Total viable cells were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

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5 References

Flow Cytometry (5)

Nature communications

Year
2022

Breast cancer cell-derived extracellular vesicles promote CD8^{+}T cell exhaustion via TGF- type II receptor signaling.

"Published figure using CD279 (PD-1) monoclonal antibody (Product # 62-9981-82) in Flow Cytometry"

Authors: Xie F,Zhou X,Su P,Li H,Tu Y,Du J,Pan C,Wei X,Zheng M,Jin K,Miao L,Wang C,Meng X,van Dam H,Ten Dijke P,Zhang L,Zhou F

iScience

Year
2022

Functional assessment of the cell-autonomous role of NADase CD38 in regulating CD8^{+} T cell exhaustion.

"Published figure using CD279 (PD-1) monoclonal antibody (Product # 62-9981-82) in Flow Cytometry"

Authors: Ma K,Sun L,Shen M,Zhang X,Xiao Z,Wang J,Liu X,Jiang K,Xiao-Feng Qin F,Guo F,Zhang B,Zhang L

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