

# CD279 (PD-1) Monoclonal Antibody (RMP1-30), Super Bright™ 600, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RMP1-30
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 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_2744860

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	6 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 bandpass filter. 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.

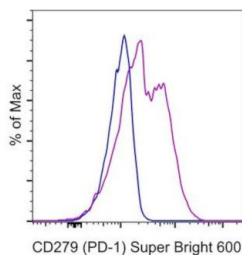
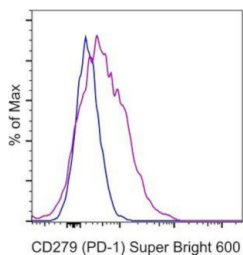
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100  $\mu$ L of cell sample + 100  $\mu$ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 600 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™ 600, eBioscience™



### CD279 (PD-1) Antibody (63-9981-82) 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  $\mu$ g of Rat IgG2b kappa Isotype Control, Super Bright 600 (Product # 63-4031-82) (blue histogram) or CD279 Monoclonal Antibody, Super Bright 600 (purple histogram). Total viable cells were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

[View more figures on thermofisher.com](#)

## 6 References

### Flow Cytometry (6)

Nature communications

#### Breast cancer cell-derived extracellular vesicles promote CD8<sup>+</sup>T cell exhaustion via TGF- type II receptor signaling.

"Published figure using CD279 (PD-1) monoclonal antibody (Product # 63-9981-82) 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

Year  
2022

iScience

#### Functional assessment of the cell-autonomous role of NADase CD38 in regulating CD8<sup>+</sup> T cell exhaustion.

"Published figure using CD279 (PD-1) monoclonal antibody (Product # 63-9981-82) 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

Year  
2022

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