

# CD279 (PD-1) Monoclonal Antibody (RMP1-30), FITC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Human, Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RMP1-30
Conjugate	FITC
Excitation/Emission Max	498/517 nm
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465467

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	15 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.

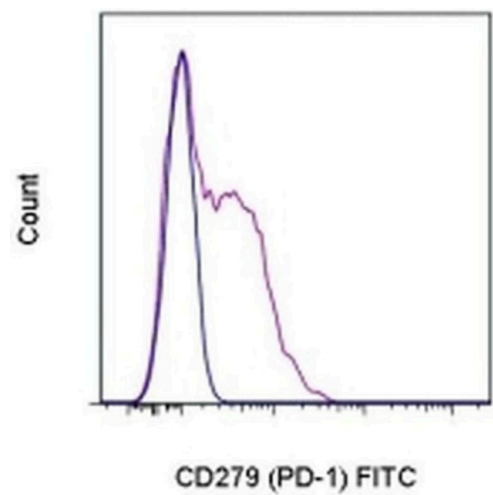
**Applications Reported:** The RMP1-30 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** The RMP1-30 antibody has been tested by flow cytometric analysis of Con A-stimulated mouse splenocytes. This can be used at less than or equal to 0.5 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.

**Excitation:** 488 nm; **Emission:** 520 nm; **Laser:** Blue Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

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



**CD279 (PD-1) Antibody (11-9981-82) in Flow**  
Staining of 3-day Anti-Mouse CD3 and Anti-Mouse CD28 Functional Grade Purified (Product # 16-0031-82 and Product # 16-0281-82)-stimulated C57Bl/6 splenocytes with 0.25 µg of Rat IgG2b K Isotype Control FITC (Product # 11-4031-82) (blue histogram) or 0.25 µg of Anti-Mouse CD279 (PD-1) FITC (purple histogram). Total viable cells, as determined by Fixable Viability Dye eFluor® 450 (Product # 65-0863-14), were used for analysis.

View more figures on [thermofisher.com](https://thermofisher.com)

15 References

Flow Cytometry (15)

<p>Nature communications</p> <p><b>Translation factor eIF5a is essential for IFN production and cell cycle regulation in primary CD8<sup>+</sup> T lymphocytes.</b></p> <p>"11-9981-82 was used in Flow cytometry/Cell sorting to show that the function of the elongation factor, eIF5a, is regulated dynamically in naive CD8<sup>+</sup> T cells upon activation by post-translational modification, whereupon it facilitates translation of specific subsets of proteins."</p> <p>Authors: Tan TCJ,Kelly V,Zou X,Wright D,Ly T,Zamoyska R</p>	<p>Year 2022</p> <p>Species Mouse</p> <p>Dilution 1:200</p>
<p>Nature communications</p> <p><b>Breast cancer cell-derived extracellular vesicles promote CD8<sup>+</sup>T cell exhaustion via TGF- type II receptor signaling.</b></p> <p>"Published figure using CD279 (PD-1) monoclonal antibody (Product # 11-9981-82) in Flow Cytometry"</p> <p>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</p>	<p>Year 2022</p> <p>Species Human</p> <p>Dilution 1:100</p>

View more Flow references on [thermofisher.com](https://thermofisher.com)

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