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.

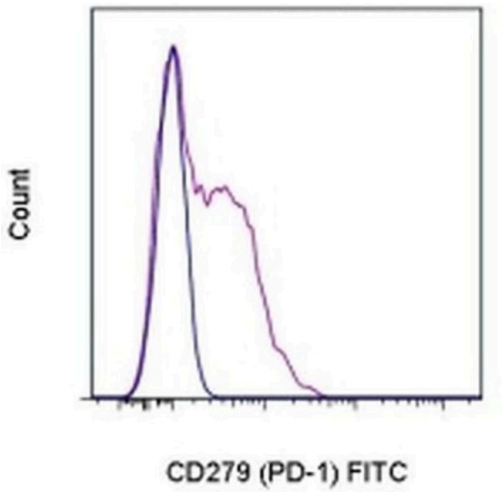
Applications Reported: The RMP1-30 antibody has been reported for use in flow cytometric analysis.

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 10^5 to 10^8 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

15 References

Flow Cytometry (15)

Nature communications

Translation factor eIF5a is essential for IFN production and cell cycle regulation in primary CD8^{+} T lymphocytes.

"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+ T cells upon activation by post-translational modification, whereupon it facilitates translation of specific subsets of proteins."

Authors: Tan TCJ,Kelly V,Zou X,Wright D,Ly T,Zamoyska R

Year
2022

Species
Mouse

Dilution
1:200

Nature communications

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 # 11-9981-82) 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

Species
Human

Dilution
1:100

View more Flow references on thermofisher.com

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