

CD279 (PD-1) Monoclonal Antibody (eBioJ105 (J105)), PE-eFluor™ 610, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human, Rhesus monkey
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-eFluor™ 610, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioJ105 (J105)
Conjugate	PE-eFluor™ 610
Excitation/Emission Max	565/606 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2574598

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	14 Publications

Product Specific Information

Description: The J105 monoclonal antibody reacts with the human PD-1 (programmed death-1), a 55 kDa member of the CD28 immunoglobulin superfamily. PD-1 contains the immunoreceptor tyrosine-based inhibitory motif (ITIM) and plays a key role in peripheral tolerance and autoimmune disease. PD-1 is expressed predominantly on activated T and B lymphocytes. Two novel members of the B7 family have been identified as the PD-1 ligands, PD-L1 (B7-H1) and PD-L2 (B7-DC). Evidence reported to date suggests overlapping functions for these two PD-1 ligands and their constitutive expression on some normal tissues and upregulation on activated antigen-presenting cells.

Costaining experiments suggest that eBioJ105 recognizes a different epitope than MIH4 (cat. 11-9969).

Applications Reported: This eBioJ105 (J105) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBioJ105 (J105) antibody has been pre-titrated and tested by flow cytometric analysis of stimulated normal human peripheral blood cells. This can be used at 5 µL (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 10⁵ to 10⁸ cells/test.

PE-eFluor® 610 can be excited with laser lines from 488-561 nm and emits at 607 nm. We recommend using a 610/20 band pass filter (equivalent to PE-Texas Red®). Please make sure that your instrument is capable of detecting this fluorochrome.

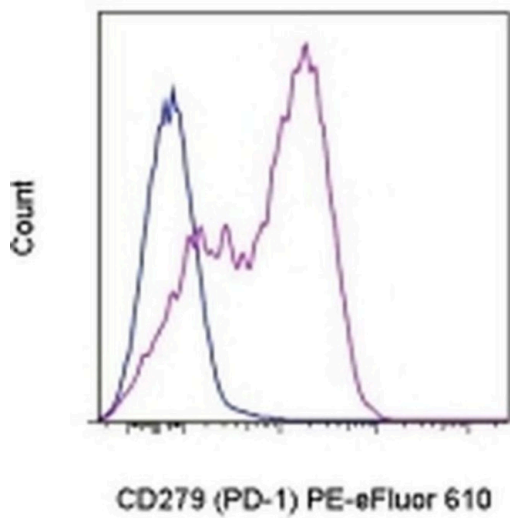
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 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.

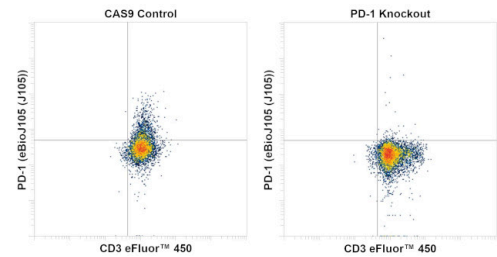
Excitation: 488-561 nm; Emission: 607 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD279 (PD-1) Monoclonal Antibody (eBioJ105 (J105)), PE-eFluor™ 610, eBioscience™



CD279 (PD-1) Antibody (61-2799-42) in Flow
Staining of unstimulated (blue histogram) or 3-day PHA-stimulated (purple histogram) normal human peripheral blood cells with Anti-Human CD279 (PD-1) PE-eFluor® 610. Viable cells, as determined by Fixable Viability Dye eFluor® 450, in the lymphocyte gate were used for analysis.



CD279 (PD-1) Antibody (61-2799-42)
Antibody clone (eBioJ105 (J105)) specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. Loss of signal was observed for target protein in eBioJ105 (J105) KO cells (left) compared to the control Cas9 cells (right) using CD279 antibody (eBioJ105 (J105)). {KO}

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Flow Cytometry (14)

<p>Translational lung cancer research</p> <p>Immune profile analysis of peripheral blood and tumors of lung cancer patients treated with immune checkpoint inhibitors.</p> <p>"61-2799-42 was used in Flow cytometry/Cell sorting to analyze the association between the immune-related molecular expression in peripheral blood mononuclear cells (PBMCs) and lung cancer tissues, and the effects of ICI monotherapy."</p> <p>Authors: Ichiki Y,Fukuyama T,Ueno M,Kanasaki Y,Goto H,Takahashi M,Mikami S,Kobayashi N,Nakanishi K,Hayashi S,Ishida T</p>	<p>Year 2022</p> <p>Species Human</p>
<p>Journal of inflammation research</p> <p>Different Induction of PD-L1 (CD274) and PD-1 (CD279) Expression in THP-1-Differentiated Types 1 and 2 Macrophages.</p> <p>"Published figure using CD279 (PD-1) monoclonal antibody (Product # 61-2799-42) in Flow Cytometry"</p> <p>Authors: Lai CY,Tseng PC,Chen CL,Satria RD,Wang YT,Lin CF</p>	<p>Year 2022</p>

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