

CD279 (PD-1) Monoclonal Antibody (eBioJ105 (J105)), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human, Rhesus monkey
Published Species	Non-human primate, Human, Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioJ105 (J105)
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 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_1834415

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	10 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 activated human peripheral blood cells. This can be used at 5 µL (0.25 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.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band

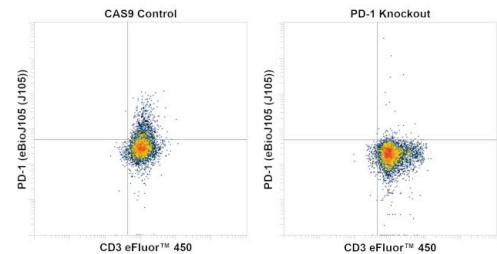
pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

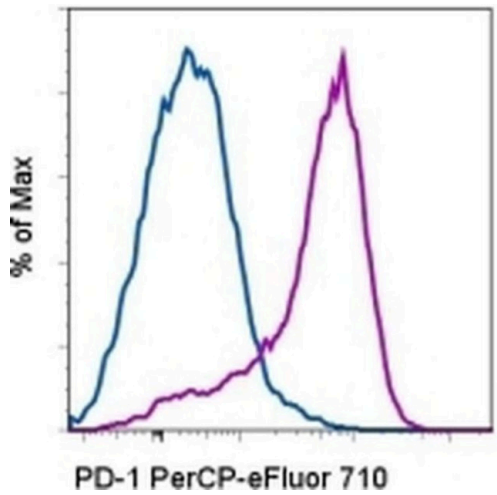
Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD279 (PD-1) Monoclonal Antibody (eBioJ105 (J105)), PerCP-eFluor™ 710, eBioscience™



CD279 (PD-1) Antibody (46-2799-42)

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}



CD279 (PD-1) Antibody (46-2799-42) 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) PerCP-eFluor® 710. Cells in the lymphocyte gate were used for analysis.

Flow Cytometry (10)

<p>Oncoimmunology</p> <p>Engineering of a trispecific tumor-targeted immunotherapy incorporating 4-1BB co-stimulation and PD-L1 blockade.</p> <p>"46-2799-42 was used in Flow cytometry/Cell sorting to engineer a tri-specific antibody-based molecule that stimulates intratumoral 4-1BB and blocks PD-L1/PD-1 signaling without systemic toxicity and with clinically favorable pharmacokinetics."</p> <p>Authors: Warmuth S,Gunde T,Snell D,Brock M,Weinert C,Simonin A,Hess C,Tietz J,Johansson M,Spiga FM,Heiz R,Flückiger N,Wagen S,Zeberger J,Diem D,Mahler D,Wickihalder B,Muntwiler S,Chatterjee B,Küttner B,Bommer B,Yaman Y,Lichtlen P,Urech D</p>	<p>Year 2022</p> <p>Species Human</p>
<p>Immunity</p> <p>Uptake of oxidized lipids by the scavenger receptor CD36 promotes lipid peroxidation and dysfunction in CD8⁺ T cells in tumors.</p> <p>"46-2799-42 was used in Flow cytometry/Cell sorting to conclude that an oxidized lipid-CD36 axis promotes intratumoral CD8⁺ T cell dysfunction and serves as a therapeutic avenue for immunotherapies."</p> <p>Authors: Xu S,Chaudhary O,Rodríguez-Morales P,Sun X,Chen D,Zappasodi R,Xu Z,Pinto AFM,Williams A,Schulze I,Farsakoglu Y,Varanasi SK,Low JS,Tang W,Wang H,McDonald B,Tripple V,Downes M,Evans RM,Abumrad NA,Merghoub T,Wolchok JD,Shokhirev MN,Ho PC,Witztum JL,Emu B,Cui G,Kaech SM</p>	<p>Year 2021</p> <p>Species Human</p>

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