CD279 (PD-1) Monoclonal Antibody (eBioJ105 (J105)), Super Bright[™] 780, eBioscience[™]

Product Details

Size	100 Tests
Species Reactivity	Human, Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright [™] 780, eBioscience [™]
Class	Monoclonal
Туре	Antibody
Clone	eBioJ105 (J105)
Conjugate	Super Bright™ 780
Excitation/Emission Max	413/780 nm
Form	Liquid
Concentration	5 µL/Test
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_2802473

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 μL (0.5 μg)/test	9 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-diluted and tested by flow cytometric analysis of stimulated normal human peripheral blood cells. This may be used at 5 μ L (0.5 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

Super Bright 780 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 780 nm. We recommend using a 780/60 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

In some experiments, we have observed that compensation values for Super Bright 780-conjugated antibodies are higher in the violet 450/50 channel when using UltraComp eBeads microspheres (Product # 01-2222-42) as compared to single-color

stained cells. In such circumstances, we would recommend setting compensation with cells. We have also observed this in some experiments using AbC Total Antibody Compensation beads (Product # A10497).

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.

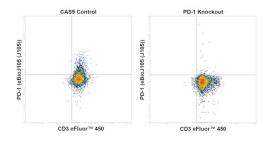
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) 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: 780 nm; Laser: Violet Laser

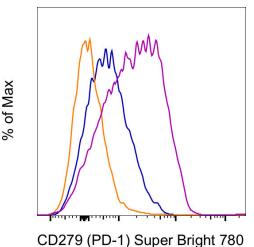
Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD279 (PD-1) Monoclonal Antibody (eBioJ105 (J105)), Super Bright[™] 780, eBioscience[™]



CD279 (PD-1) Antibody (78-2799-42)

Antibody clone (eBioJ105 (J105)) specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. Lossof signal was observed for target protein in eBioJ105 (J105) KOcells (left) compared to the control Cas9cells (right) using CD279 antibody (eBioJ105 (J105)). {KO}



CD279 (PD-1) Antibody (78-2799-42) in Flow

Normal human peripheral blood cells were unstimulated (orange) or stimulated for 48 hours with PHA-L (Product # 00-4977-03). Cells were then stained with Mouse IgG1 kappa Isotype Control, Super Bright 780 (Product # 78-4714-82) (blue histogram) or CD279 Monoclonal Antibody, Super Bright 780 (purple histogram). Viable lymphocytes were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

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9 References

Flow Cytometry (9)

Journal of inflammation research Different Induction of PD-L1 (CD274) and PD-1 (CD279) Expression in THP-1-Differentiated Types 1 and 2 Macrophages.		
"Published figure using CD279 (PD-1) monoclonal antibody (Product # 78-2799-42) in Flow Cytometry" Authors: Lai CY,Tseng PC,Chen CL,Satria RD,Wang YT,Lin CF		
Cytometry. Part A : the journal of the International Society for Analytical Cytology	Year 2021	

A human receptor occupancy assay to measure anti-PD-1 binding in patients with prior anti-PD-1.

"Published figure using CD279 (PD-1) monoclonal antibody (Product # 78-2799-42) in Flow Cytometry" Authors: Junker F,Gulati P,Wessels U,Seeber S,Stubenrauch KG,Codarri-Deak L,Markert C,Klein C,Camillo Teixeira P, Kao H

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