

CD279 (PD-1) Monoclonal Antibody (J43), Super Bright™ 436, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	J43
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 nm
Form	Liquid
Concentration	0.2 mg/mL
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_2744826

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1.0 µg/test	23 Publications

Product Specific Information

Description: The J43 monoclonal 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. It is reported that J43 inhibits the binding of mouse PD-L1-Ig and mouse PD-L2-Ig to PD-1/BHK transfected cells. When administrated in vivo, both intact and Fab of J43 are reported to enhance contact hypersensitivity and exacerbate acute GVHD similar to transfer of PD-1-deficient cells. Injection of J43 also exacerbates EAE and NOD diabetes as do specific antibodies to mouse PD-L1 and PD-L2.

Applications Reported: This J43 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This J43 antibody has been tested by flow cytometric analysis of stimulated mouse splenocytes. This may be used at less than or equal to 1.0 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

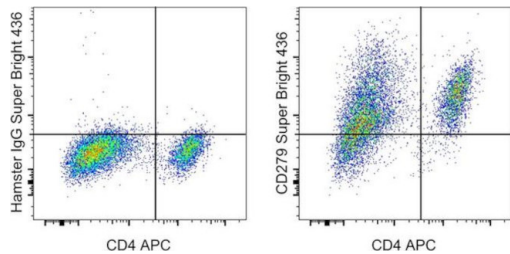
When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright

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.

Excitation: 405 nm; Emission: 436 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 (J43), Super Bright™ 436, eBioscience™



CD279 (PD-1) Antibody (62-9985-82) in Flow
Swiss Webster mouse splenocytes were stimulated for 3 days with CD3e and CD28 Monoclonal Antibodies, Functional Grade (Product # 16-0031-82 and Product # 16-0281-82), and then stained with CD4 Monoclonal Antibody, APC (Product # 17-0042-82) and 0.5 µg of Armenian Hamster IgG Isotype Control, Super Bright 436 (Product # 62-4888-82) (left) or 0.5 µg of CD279 Monoclonal Antibody, Super Bright 436 (right). Cells in the lymphocyte gate were used for analysis.

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23 References

Flow Cytometry (23)

<p>Nature communications</p> <p>PRDM1/BLIMP1 induces cancer immune evasion by modulating the USP22-SPI1-PD-L1 axis in hepatocellular carcinoma cells.</p> <p>"Published figure using CD279 (PD-1) monoclonal antibody (Product # 62-9985-82) in Flow Cytometry"</p> <p>Authors: Li Q,Zhang L,You W,Xu J,Dai J,Hua D,Zhang R,Yao F,Zhou S,Huang W,Dai Y,Zhang Y,Baheti T,Qian X,Pu L, Xu J,Xia Y,Zhang C,Tang J,Wang X</p>	<p>Year 2022</p>
<p>Aging and disease</p> <p>CD4⁺ CTLs Act as a Key Effector Population for Allograft Rejection of MSCs in a Donor MHC-II Dependent Manner in Injured Liver.</p> <p>"Published figure using CD279 (PD-1) monoclonal antibody (Product # 62-9985-82) in Flow Cytometry"</p> <p>Authors: Shen S,Li Y,Jin M,Fan D,Pan R,Lin A,Chen Y,Xiang L,Zhao RC,Shao J</p>	<p>Year 2022</p>

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