

CD279 (PD-1) Monoclonal Antibody (J43), Biotin, eBioscience™

Product Details	
Size	100 μg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Biotin, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	J43
Conjugate	Biotin
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_467023

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Flow Cytometry (Flow)	0.25 μg/test	38 Publications
ELISA (ELISA)	-	1 Publication
Functional Assay (FN)	-	1 Publication

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: The J43 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The J43 antibody has been tested by flow cytometric analysis of Con A-simulated mouse splenocytes and mouse PD-1 transfected cells. This can be used at less than or equal to 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

□ 43 References

Immunohistochemistry (2)

Journal of Cancer

PD-1 Blockade Overcomes Adaptive Immune Resistance in Treatment with Anchored-GM-CSF Bladder Cancer Cells Vaccine.

"Published figure using CD279 (PD-1) monoclonal antibody (Product # 13-9985-82) in Immunohistochemistry" Authors: Zhang X,Shi X,Li J,Mo L,Hu Z,Gao J,Wu S,Long Z

Year 2020

Gene therapy

Effects of irradiating adult mdx mice before full-length dystrophin cDNA transfer on host anti-dystrophin immunity.

"13-9985 was used in Immunohistochemistry to demonstrate that dystrophin gene transfer induces anti-dystrophin immunity that are diminished by temporal removal of host immune cells.

Authors: Eghtesad S, Zheng H, Nakai H, Epperly MW, Clemens PR

Year 2010

Species Mouse

Immunohistochemistry (Frozen) (1)

The Journal of experimental medicine

The programmed death-1 (PD-1) pathway regulates autoimmune diabetes in nonobese diabetic (NOD) mice.

Authors: Ansari MJ, Salama AD, Chitnis T, Smith RN, Yagita H, Akiba H, Yamazaki T, Azuma M, Iwai H, Khoury SJ, Auchincloss H, Sayegh MH

Year 2003

Flow Cytometry (38)

Nature communications

Xu J,Xia Y,Zhang C,Tang J,Wang X

PRDM1/BLIMP1 induces cancer immune evasion by modulating the USP22-SPI1-PD-L1 axis in hepatocellular carcinoma cells.

"Published figure using CD279 (PD-1) monoclonal antibody (Product # 13-9985-82) in Flow Cytometry" 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, Year 2022

View more Flow references on thermofisher.com

More applications with references on thermofisher.com

ELISA (1)

FN (1)

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