

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

Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Armenian hamster / IgG
Class	Monoclonal
Type	Antibody
Clone	J43
Conjugate	Unconjugated
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
RRID	AB_468664

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	71 Publications
Immunoprecipitation (IP)	Assay-Dependent	-
Neutralization (Neu)	-	1 Publication
Functional Assay (FN)	-	3 Publications
Inhibition Assays (IA)	-	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, and immunoprecipitation. It has also been reported for use in in vitro functional assays. (Please use Functional Grade purified J43, cat. 16-9985, in functional assays.).

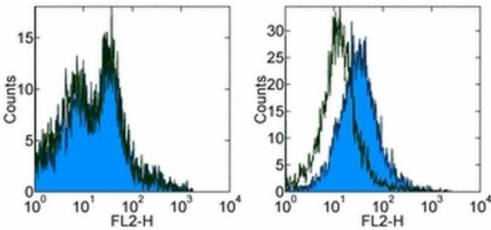
Applications Tested: The J43 antibody has been tested by flow cytometric analysis of mouse Con-A activated spleen cells and mouse PD-1 transfected cells. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD279 (PD-1) Monoclonal Antibody (J43), eBioscience™



CD279 (PD-1) Antibody (14-9985-82) in Flow
Staining of 3-day unstimulated (left) and 3-day ConA activated (right) BALB/c splenocytes with 0.25 µg of Hamster IgG Isotype Control Purified (Product # 14-4888-81) (open histogram) or 0.25 µg of Anti-Mouse PD-1 Purified (filled histogram) followed by Anti-Armenian Hamster IgG Biotin (Product # 13-4113-85) and Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

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Western Blot (1)

Wellcome open research	Year 2022
Activation of regulatory T cells triggers specific changes in glycosylation associated with Siglec-1-dependent inflammatory responses.	Species Mouse
"Published figure using CD279 (PD-1) monoclonal antibody (Product # 14-9985-82) in Flow Cytometry"	Dilution 1:1
Authors: Wu G,Murugesan G,Nagala M,McCraw A,Haslam SM,Dell A,Crocker PR	

Immunohistochemistry (1)

Journal of Cancer	Year 2020
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 # 14-9985-82) in Immunohistochemistry"	
Authors: Zhang X,Shi X,Li J,Mo L,Hu Z,Gao J,Wu S,Long Z	

Immunohistochemistry (Frozen) (1)

The Journal of experimental medicine	Year 2003
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	

Immunocytochemistry (1)

Journal of virology	Year 2011
The role of LAT in increased CD8+ T cell exhaustion in trigeminal ganglia of mice latently infected with herpes simplex virus 1.	Species Mouse
"14-9985 was used in Immunofluorescence to suggest that PD-1 and Tim-3 are facilitators of CD8(+) T cell exhaustion and dormancy in herpes simplex virus-1 infection."	
Authors: Allen SJ,Hamrah P,Gate D,Mott KR,Mantopoulos D,Zheng L,Town T,Jones C,von Andrian UH,Freeman GJ,Sharpe AH,BenMohamed L,Ahmed R,Wechsler SL,Ghiasi H	

More applications with references on thermofisher.com

- Flow (71)
- Neu (1)
- FN (3)
- IA (1)

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