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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotope	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	J43
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466295

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	33 Publications
Functional Assay (FN)	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	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.

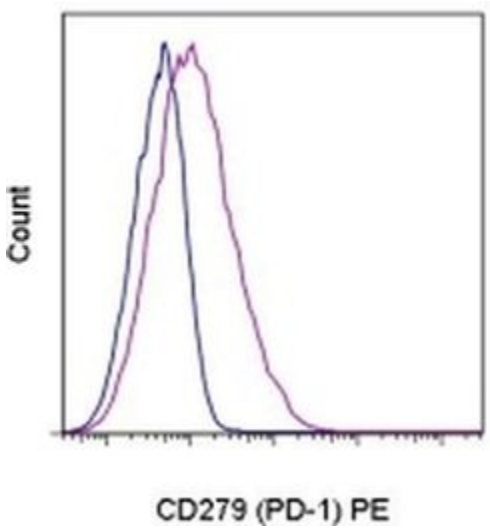
Applications Reported: The J43 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The J43 antibody has been tested by flow cytometric analysis of stimulated mouse splenocytes. 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD279 (PD-1) Antibody (12-9985-82) in Flow
Staining of 3-day Con A-stimulated BALB/c splenocytes with 0.25 µg of Armenian Hamster IgG Isotype Control PE (Product # 12-4888-81) (blue histogram) or 0.25 µg of Anti-Mouse CD279 (PD-1) PE (purple histogram). Total viable cells were used for analysis.

View more figures on thermofisher.com

35 References

Flow Cytometry (33)

Oncoimmunology

The stress kinase GCN2 does not mediate suppression of antitumor T cell responses by tryptophan catabolism in experimental melanomas.

"Published figure using CD279 (PD-1) monoclonal antibody (Product # 12-9985-82) in Flow Cytometry"

Authors: Sonner JK,Deumelandt K,Ott M,Thomé CM,Rauschenbach KJ,Schulz S,Munteanu B,Mohapatra S,Adam I, Hofer AC,Feuerer M,Opitz CA,Hopf C,Wick W,Platten M

Species
Mouse
Not Applicable

Dilution
Not Cited
Not Cited

Year
2019

Oncoimmunology

Growth and metastasis of lung adenocarcinoma is potentiated by BMP4-mediated immunosuppression.

"Published figure using CD279 (PD-1) monoclonal antibody (Product # 12-9985-82) in Flow Cytometry"

Authors: Chen L,Yi X,Goswami S,Ahn YH,Roybal JD,Yang Y,Diao L,Peng D,Peng D,Fradette JJ,Wang J,Byers LA, Kurie JM,Ullrich SE,Qin FX,Gibbons DL

Species
Mouse
Not Applicable

Dilution
1:150
Not Cited

Year
2019

View more Flow references on thermofisher.com

Functional Assay (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

Species
Not Applicable

Dilution
Not Cited

Year
2003

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

Species
Not Applicable

Dilution
Not Cited

Year
2003

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