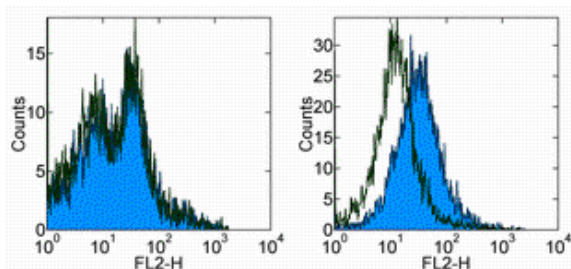


Anti-Mouse CD279 (PD-1) Purified

Catalog Number: 14-9985

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of 3-day unstimulated (left) and 3-day ConA activated (right) BALB/c splenocytes with 0.25 μ g of Hamster IgG Isotype Control Purified (cat. 14-4888) (open histogram) or 0.25 μ g of Anti-Mouse PD-1 Purified (filled histogram) followed by Anti-Armenian Hamster IgG Biotin (cat. 13-4113) and Streptavidin PE (cat. 12-4317). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD279 (PD-1) Purified

REF **Catalog Number:** 14-9985

Clone: J43

Concentration: 0.5 mg/mL

Host/Isotype: Armenian Hamster IgG

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 **Temperature Limitation:** Store at 2-8°C.

 **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

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 administered *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 cell suspensions and mouse PD-1 transfected cells. This can be used at less than or equal to 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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Related Products

11-4111 Anti-Armenian Hamster IgG FITC

14-4888 Armenian Hamster IgG Isotype Control Purified (eBio299Arm)

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