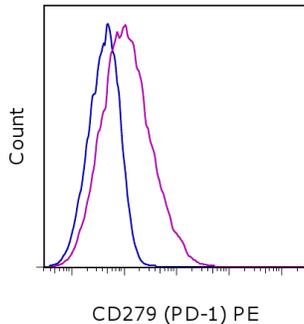


Anti-Mouse CD279 (PD-1) PE

Catalog Number: 12-9985

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



Staining of 3-day Con A-stimulated BALB/c splenocytes with 0.25 ug of Armenian Hamster IgG Isotype Control PE (cat. 12-4888) (blue histogram) or 0.25 ug of Anti-Mouse CD279 (PD-1) PE (purple histogram). Total viable cells were used for analysis.

Product Information

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

REF **Catalog Number:** 12-9985

Clone: J43

Concentration: 0.2 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. Do not freeze. Light sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide



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.

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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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Related Products

12-4888 Armenian Hamster IgG Isotype Control PE (eBio299Arm)

12-5760 Anti-Mouse Bcl-6 PE (G1191E)

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