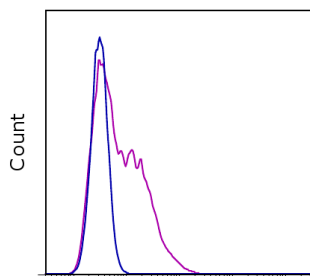


Anti-Mouse CD279 (PD-1) eFluor[®] 450

Catalog Number: 48-9981

Also known as: Pcd1, Programmed cell death protein 1

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



CD279 (PD-1) eFluor 450

Staining of 3-day Anti-Mouse CD3 and Anti-Mouse CD28 Functional Grade Purified (cat. 16-0031 and 16-0281)-stimulated C57Bl/6 splenocytes with 0.5 μ g of Rat IgG2b K Isotype Control eFluor[®] 450 (cat. 48-4031) (blue histogram) or 0.5 μ g of Anti-Mouse CD279 (PD-1) eFluor[®] 450 (purple histogram). Total viable cells, as determined by 7-AAD (cat. 00-6993), were used for analysis.

Product Information

Contents: Anti-Mouse CD279 (PD-1) eFluor[®] 450

REF **Catalog Number:** 48-9981

Clone: RMP1-30

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2b, kappa

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 RMP1-30 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. RMP1-30 does not block the binding of either B7-H1-Ig or B7-DC-Ig to PD-1 transfectants.

Applications Reported

This RMP1-30 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This RMP1-30 antibody has been tested by flow cytometric analysis of activated mouse splenocytes. This can be used at less than or equal to 1 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.

eFluor[®] 450 is a replacement for Pacific Blue[®]. eFluor[®] 450 emits at 456 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

References

Matsumoto K, Inoue H, Nakano T, Tsuda M, Yoshiura Y, Fukuyama S, Tsushima F, Hoshino T, Aizawa H, Akiba H, Pardoll D, Hara N, Yagita H, Azuma M, Nakanishi Y. B7-DC regulates asthmatic response by an IFN-gamma-dependent mechanism. *J Immunol.* 2004 Feb 15;172(4):2530-41.

Nishimura H, Okazaki T, Tanaka Y, Nakatani K, Hara M, Matsumori A, Sasayama S, Mizoguchi A, Hiai H, Minato N, Honjo T. Autoimmune dilated cardiomyopathy in PD-1 receptor-deficient mice. *Science.* 2001 Jan 12;291(5502):319-

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Freeman GJ, Long AJ, Iwai Y, Bourque K, Chernova T, Nishimura H, Fitz LJ, Malenkovich N, Okazaki T, Byrne MC, Horton HF, Fouser L, Carter L, Ling V, Bowman MR, Carreno BM, Collins M, Wood CR, Honjo T. Engagement of the PD-1 immunoinhibitory receptor by a novel B7 family member leads to negative regulation of lymphocyte activation. *J Exp Med.* 2000 Oct 2;192(7):1027-34.

Agata Y, Kawasaki A, Nishimura H, Ishida Y, Tsubata T, Yagita H, Honjo T. Expression of the PD-1 antigen on the surface of stimulated mouse T and B lymphocytes. *Int Immunol.* 1996 May;8(5):765-72.

Related Products

00-6993 7-AAD Viability Staining Solution

48-4031 Rat IgG2b K Isotype Control eFluor® 450

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