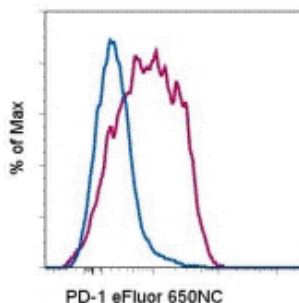


Anti-Human CD279 (PD-1) eFluor® 650NC

Catalog Number: 95-2799

Also Known As: PD1

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



Staining of 3-day PHA-stimulated normal human peripheral blood cells with Mouse IgG1 K Isotype Control eFluor® 650NC (blue histogram) or Anti-Human CD279 (PD-1) eFluor® 650NC (purple histogram). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD279 (PD-1) eFluor® 650NC

REF **Catalog Number:** 95-2799

Clone: eBioJ105 (J105)

Concentration: 5 µL

Host/Isotype: Mouse IgG1, kappa

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

Temperature Limitation: Store at 2-8°C. Light sensitive material. This product is guaranteed for 6 months upon receipt when stored properly.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

Description

The J105 monoclonal antibody reacts with the human PD-1 (programmed death-1), a 55 kDa member of the CD28 immunoglobulin superfamily. PD-1 contains the immunoreceptor tyrosine-based inhibitory motif (ITIM) and plays a key role in peripheral tolerance and autoimmune disease. PD-1 is expressed predominantly on activated T and B lymphocytes. Two novel members of the B7 family have been identified as the PD-1 ligands, PD-L1 (B7-H1) and PD-L2 (B7-DC). Evidence reported to date suggests overlapping functions for these two PD-1 ligands and their constitutive expression on some normal tissues and upregulation on activated antigen-presenting cells. Costaining experiments suggest that eBioJ105 recognizes a different epitope than MIH4 (cat. 11-9969).

Applications Reported

This eBioJ105 (J105) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This eBioJ105 (J105) antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL 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.

The isotype control eFluor® 650NC mouse IgG1 (cat. 95-4714) should be used at 2.5 µL/test

Laser/Filter Recommendation: When using eFluor 650NC, we recommend excitation with the 405nm violet laser with an appropriate filter set, such as the 630 LP dichroic mirror with the 660/40 bandpass filter. The eFluor 650NC can be minimally excited off of the 633 nm laser, and because its peak emission is 650nm, it will require some compensation out of the APC detector.

Fixation Recommendation: When fixing samples that have been stained with nanocrystal reagents, we recommend keeping the total volume at approximately 200 µL. (100 µL cells + 100 µL IC Fixation Buffer (cat. 00-8222)) and the exposure time at 30-60 minutes to preserve the optimal fluorescent signal from the nanocrystal reagent.

For answers about fixation and other questions, please refer to Nanocrystal Frequently Asked Questions or contact eBioscience Technical Support.

References

Iwai Y, Okazaki T, Nishimura H, Kawasaki A, Yagita H, Honjo T. Microanatomical localization of PD-1 in human tonsils. *Immunol Lett.* 2002 Oct 1;83(3):215-20. PubMed

Related Products

00-4222 Flow Cytometry Staining Buffer

95-4714 Mouse IgG1 K Isotype Control eFluor® 650NC (P3.6.2.8.1)

Legal

Under patent number: US 7,939,170 and additional pending patent application(s)

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