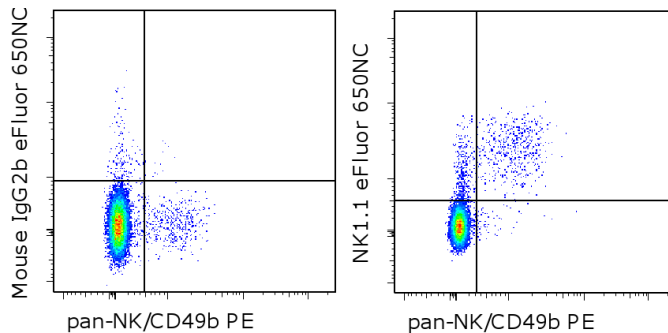


Anti-Mouse NK1.1 eFluor[®] 650NC

Catalog Number: 95-5941

Also known as: CD161, NKR-P1C, Ly-55

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



Staining of C57BL/6 splenocytes with Anti-Mouse CD49b (Integrin alpha 2) PE (cat. 12-5971) and Mouse IgG2a K Isotype Control eFluor[®] 650NC (cat. 95-4724) (left) or Anti-Mouse NK1.1 eFluor[®] 650NC (right). Total viable cells were used for analysis.

Product Information



Contents: Anti-Mouse NK1.1 eFluor[®] 650NC

Catalog Number: 95-5941

Clone: PK136

Concentration: 5 μ L

Host/Isotype: Mouse IgG2a, 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 PK136 monoclonal antibody reacts with mouse NK1.1, an antigen expressed by natural killer cells and a subset of T cells in the NK1.1 mouse strains including C57BL and NZB. Several commonly used laboratory mouse strains such as BALB/c, SJL, AKR, CBA, C3H and A do not express the NK1.1 antigen. For detection of NK cells in these strains the monoclonal antibody DX5 (Cat. No. 14-5971) should be used. Simultaneous staining of C57BL/6 spleen cells with PK136 and DX5 reveals coexpression of both markers by a majority of cells as well as presence of small populations of DX5+PK136- and DX5-PK136+ cells.

Applications Reported

This PK136 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This PK136 antibody has been pre-titrated and tested by flow cytometric analysis of mouse splenocytes. This can be used at 5 μ L 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.

The Isotype Control Mouse IgG1 eFluor[®] 650NC (cat. 95-4714) should be used at 5 μ L/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 μ L. (100 μ L cells + 100 μ L IC Fixation Buffer (cat. 00-8222)) and the exposure time at 30-60 minutes to preserve the optimal fluorescent signal from the nanocrystal reagent.

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

References

Kitaichi N, Kotake S, Morohashi T, Onoe K, Ohno S, Taylor AW. Diminution of experimental autoimmune uveoretinitis (EAU) in mice depleted of NK cells. J Leukoc Biol. 2002 Dec;72(6):1117-21. (**PK136**, in vivo depletion, PubMed)

Koo, G. C. and J. R. Peppard. Establishment of monoclonal anti-Nk-1.1 antibody. Hybridoma 1984. 3(3): 301-3.

Related Products

00-4222 Flow Cytometry Staining Buffer

12-5971 Anti-Mouse CD49b (Integrin alpha 2) PE (DX5)

95-4724 Mouse IgG2a K Isotype Control eFluor® 650NC

Legal

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

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