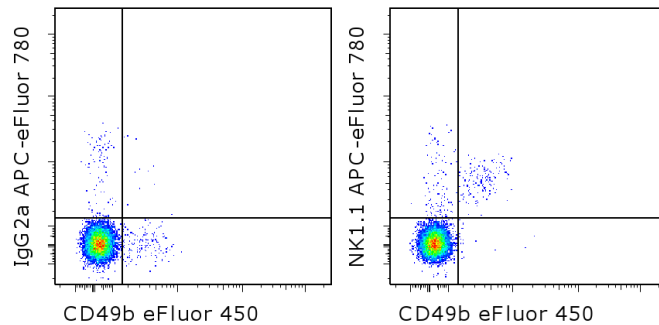


Anti-Mouse NK1.1 APC-eFluor[®] 780

Catalog Number: 47-5941

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) eFluor[®] 450 (cat. 48-5971) and 0.5 ug of Mouse IgG2a K Isotype Control APC-eFluor[®] 780 (cat. 47-4724) (left) or 0.5 ug of Anti-Mouse NK1.1 APC-eFluor[®] 780 (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse NK1.1 APC-eFluor[®] 780

REF **Catalog Number:** 47-5941

Clone: PK136

Concentration: 0.2 mg/mL

Host/Isotype: Mouse IgG2a, 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. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.

LOT **Batch Code:** Refer to vial

Use By: Refer to vial

Contains sodium 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 tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 1 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.

APC-eFluor[®] emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochoime.

Light sensitivity: Tandem is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on

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brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

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

47-4724 Mouse IgG2a K Isotype Control APC-eFluor® 780

48-5971 Anti-Mouse CD49b (Integrin alpha 2) eFluor® 450 (DX5)