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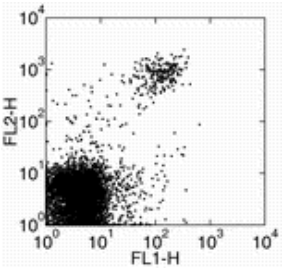
Anti-Mouse NK1.1 Functional Grade Purified

Catalog Number: 16-5941
Also Known As:CD161, NKR-P1C, Ly-55
RUO: For Research Use Only



Staining of C57BL/6 mouse splenocytes with Anti-Mouse CD49b (Integrin alpha 2) FITC (cat. 11-0491) and Anti-Mouse NK-1.1 PE. Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse NK1.1 Functional Grade Purified
REF **Catalog Number:** 16-5941
Clone: PK136
Concentration: 1 mg/mL
Host/Isotype: Mouse IgG2a, kappa
Handling Conditions: Use in sterile environment.
Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide
Temperature Limitation: Store at 2-8°C.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial

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

PK136 has been reported for use in flow cytometric analysis, depletion of NK cells, and *in vitro* functional studies.

Applications Tested

The PK136 antibody has been tested by flow cytometric analysis of C57BL/6 mouse splenocyte suspensions and 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in other applications.

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 (1984). Establishment of monoclonal anti-Nk-1.1 antibody. Hybridoma 3(3): 301-3.

Related Products

11-0491 Anti-Mouse CD49b (Integrin alpha 2) FITC (HMa2)
11-4011 Anti-Mouse IgG FITC
11-4317 Streptavidin FITC
12-4317 Streptavidin PE
13-4013 Anti-Mouse IgG Biotin (Polyclonal)
16-4724 Mouse IgG2a K Isotype Control Functional Grade Purified
17-4317 Streptavidin APC

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