

NK1.1 Monoclonal Antibody (PK136), APC-eFluor™ 780, eBioscience™

Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	PK136
Conjugate	APC-eFluor™ 780
Excitation/Emission Max	756/785 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2735070

Applications

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	41 Publications

Product Specific Information

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 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

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

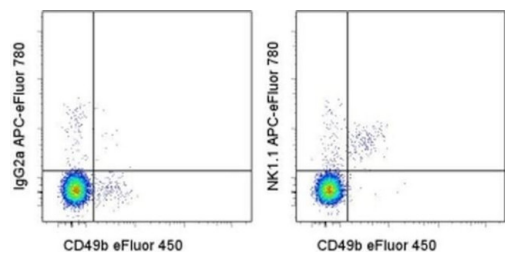
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific

performance should be determined empirically.

Excitation: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For NK1.1 Monoclonal Antibody (PK136), APC-eFluor™ 780, eBioscience™



NK1.1 Antibody (47-5941-82) in Flow
Staining of C57Bl/6 splenocytes with Anti-Mouse CD49b (Integrin alpha 2) eFluor® 450 (Product # 48-5971-82) and 0.5 µg of Mouse IgG2a K Isotype Control APC-eFluor® 780 (Product # 47-4724) (left) or 0.5 µg of Anti-Mouse NK1-1 APC-eFluor® 780 (right). Total viable cells were used for analysis.

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41 References

Flow Cytometry (41)

<p>eLife</p> <p>IL-4 and helminth infection downregulate MINCLE-dependent macrophage response to mycobacteria and Th17 adjuvanticity.</p> <p>"47-5941-82 was used in Flow cytometry/Cell sorting to demonstrate downregulation of MINCLE expression on monocytes and macrophages by IL-4 as a possible mechanism of thwarted Th17 vaccination responses by underlying helminth infection."</p> <p>Authors: Schick J,Altunay M,Lacorcia M,Marschner N,Westermann S,Schluckebier J,Schubart C,Bodendorfer B,Christensen D,Alexander C,Wirtz S,Voehringer D,da Costa CP,Lang R</p>	<p>Year 2023</p> <p>Species Mouse</p> <p>Dilution 1:100</p>
<p>Cell</p> <p>Continuous germinal center invasion contributes to the diversity of the immune response.</p> <p>"47-5941-82 was used in Flow cytometry/Cell sorting to show that naive B cells continuously enter GCs where they compete for T cell help and undergo clonal expansion."</p> <p>Authors: Hägglöf T,Cipolla M,Loewe M,Chen ST,Mesin L,Hartweger H,EITanbouly MA,Cho A,Gazumyan A,Ramos V,Stamatatos L,Oliveira TY,Nussenzweig MC,Viant C</p>	<p>Year 2023</p> <p>Species Mouse</p>

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