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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Rat, Mouse, Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	PK136
Conjugate	APC
Excitation/Emission Max	651/660 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_469479

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	111 Publications
Functional Assay (Functional)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

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 (Product # 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.

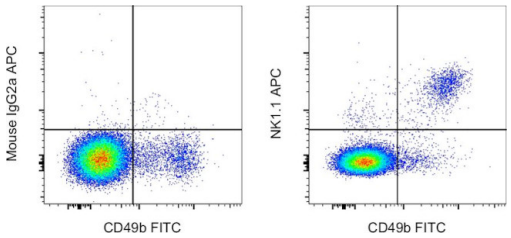
Applications Reported: PK136 has been reported for use in flow cytometric analysis.

Applications Tested: The PK136 antibody has been tested by flow cytometric analysis of C57Bl/6 mouse splenocytes and can be used at less than or equal to 0.125 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 the assay of interest.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



NK1.1 Antibody (17-5941-82) in Flow
C57BL/6 mouse splenocytes were stained with CD49b Monoclonal Antibody, FITC (Product # 11-5971-82) and 0.06 µg of Mouse IgG2a kappa Isotype Control, APC (Product # 17-4724-81) (left) or 0.06 µg of NK1.1 Monoclonal Antibody, APC (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.cn

113 References

Flow Cytometry (111)

Histology and histopathology

WTAP enhances the instability of SYTL1 mRNA caused by YTHDF2 in bladder cancer.

"17-5941-82 was used in Flow Cytometry to investigate the implications of m6A regulators in modulating SYTL1 expression in BCa and the association with the anti-tumor effects of NK cells."

Authors: Wang J,Luo J,Wu X,Li Z

Year
2024

Species
Mouse

Cell communication and signaling : CCS

Ten-eleven translocation-2-mediated macrophage activation promotes liver regeneration.

"Published figure using NK1.1 monoclonal antibody (Product # 17-5941-82) in Flow Cytometry"

Authors: Chen Y,Meng L,Xu N,Chen H,Wei X,Lu D,Wang S,Xu X

Year
2024

View more Flow references on thermofisher.cn

Functional Assay (1)

Cancer research

Natural killer cells eradicate galectin-1-deficient glioma in the absence of adaptive immunity.

"Published figure using NK1.1 monoclonal antibody (Product # 17-5941-82) in Flow Cytometry"

Authors: Baker GJ,Chockley P,Yadav VN,Doherty R,Ritt M,Sivaramakrishnan S,Castro MG,Lowenstein PR

Year
2014

Species
Mouse

Miscellaneous PubMed (1)

International immunology

Runx proteins are involved in regulation of CD122, Ly49 family and IFN-gamma expression during NK cell differentiation.

"17-5941 was used in Magnetic cell separation to investigate the role of Runx family proteins in NK cells, showing that they are involved in regulation of CD122, Ly49 family and IFN-gamma expression during differentiation."

Authors: Ohno S,Sato T,Kohu K,Takeda K,Okumura K,Satake M,Habu S

Year
2008

Species
Mouse

More applications with references on thermofisher.cn