

NK1.1 Monoclonal Antibody (PK136), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Fish, Mouse, Human
Host/Isotope	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	PK136
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_467736

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	0.5 µg/test	72 Publications
Functional Assay (FN)	-		6 Publications
Miscellaneous PubMed (MISC)	-		1 Publication
Neutralization (Neu)	-		3 Publications
Immunohistochemistry (Frozen) (IHC (F))	-		1 Publication
Immunocytochemistry (ICC)	-		1 Publication
Immunoprecipitation (IP)	✓	Assay-Dependent	

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: PK136 can be used for flow cytometric analysis, immunoprecipitation, depletion of NK cells, and in vitro functional studies. (Please use Functional Grade purified PK136, cat. 16-5941, for functional studies.).

Applications Tested: The PK136 antibody has been tested by flow cytometric analysis of C57Bl/6 mouse splenocytes and can be

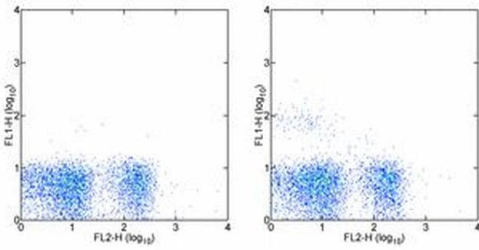
used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

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



NK1.1 Antibody (14-5941-82) in Flow

Staining of C57BL/6 splenocytes with Anti-Mouse CD3e PE (Product # 12-0031-82) and 0.25 µg of Mouse IgG2a K Isotype Control Purified (Product # 14-4724-82) (left) or 0.25 µg of Anti-Mouse NK1.1 Purified (right) followed by Anti-Mouse IgG FITC (Product # 11-4011-85). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](http://thermofisher.com)

Flow Cytometry (72)

Frontiers in neurology

IL-2/Anti-IL-2 Complex Attenuates Inflammation and BBB Disruption in Mice Subjected to Traumatic Brain Injury.

"Published figure using NK1.1 monoclonal antibody (Product # 14-5941-82) in Flow Cytometry"

Authors: Gao W, Li F, Zhou Z, Xu X, Wu Y, Zhou S, Yin D, Sun D, Xiong J, Jiang R, Zhang J

Species
Not Applicable

Dilution
Not Cited

Year
2018

Nature communications

Plasmodium co-infection protects against chikungunya virus-induced pathologies.

"Published figure using NK1.1 monoclonal antibody (Product # 14-5941-82) in Flow Cytometry"

Authors: Teo TH, Lum FM, Ghaffar K, Chan YH, Amrun SN, Tan JJJ, Lee CYP, Chua TK, Carissimo G, Lee WWL, Claser C, Rajarethinam R, Rénia L, Ng LFP

Species
Not Applicable

Dilution
Not Cited

Year
2018

[View more Flow references on thermofisher.com](#)

Functional Assay (6)

PloS one

Mechanisms of immunity in post-exposure vaccination against Ebola virus infection.

"14-5941 was used in Functional assays to analyse the expression levels of various cytokines in the serum of mice given an Ebola virus-like particle."

Authors: Bradfute SB, Anthony SM, Stuthman KS, Ayithan N, Tailor P, Shaia CI, Bray M, Ozato K, Bavari S

Species
Mouse

Dilution
Not Cited

Year
2016

Journal of leukocyte biology

NK cells are necessary for recovery of corneal CD11c+ dendritic cells after epithelial abrasion injury.

"14-5941 was used in in vivo experiments to investigate the mechanisms controlling CD11c(+) MHCII(+) DCs during corneal epithelial wound healing."

Authors: Gao Y, Li Z, Hassan N, Mehta P, Burns AR, Tang X, Smith CW

Species
Mouse

Dilution
Not Cited

Year
2013

[View more FN references on thermofisher.com](#)

More applications with references on thermofisher.com

MISC (1) Neu (3) IHC (F) (1) ICC (1)

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