

# NK1.1 Monoclonal Antibody (PK136), 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	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	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	127 Publications
Immunoprecipitation (IP)	Assay-Dependent	-
Neutralization (Neu)	-	3 Publications
Functional Assay (FN)	-	6 Publications
Miscellaneous PubMed (Misc)	-	3 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 (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 can be used for flow cytometric analysis, immunoprecipitation, depletion of NK cells, and in vitro functional studies. (Please use Functional Grade purified PK136, Product # 16-5941 , in functional assays.).

**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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is

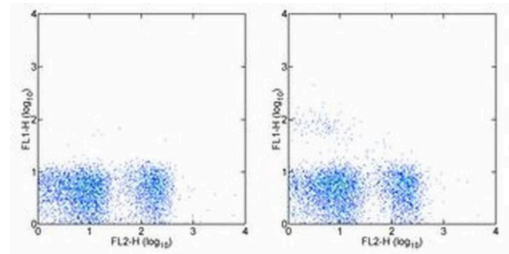
recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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.

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Western Blot (1)

Cell death & disease	Year 2020
<b>Intestinal vitamin D receptor knockout protects from oxazolone-induced colitis.</b>	Species Mouse
"14-5941 was used in Western Blotting to identify that intestinal vitamin D receptor knockout protected against oxazolone-induced colitis in mice by blocking Th2 cell response and reducing the function of intestinal invariant natural killer T cells."	
Authors: Shi Y,Liu Z,Cui X,Zhao Q,Liu T	

Immunohistochemistry (2)

Journal of oncology	Year 2022
<b>The Effect of <i>miR-520b</i> on Macrophage Polarization and T Cell Immunity by Targeting <i>PTEN</i> in Breast Cancer.</b>	
"Published figure using NK1.1 monoclonal antibody (Product # 14-5941-82) in Immunohistochemistry"	
Authors: Zhu Q,Yuan J,He Y,Hu Y	

The American journal of pathology	Year 2020
<b>Hippo Signaling Pathway Has a Critical Role in Zika Virus Replication and in the Pathogenesis of Neuroinflammation.</b>	Species Mouse
"14-5941-82 was used in Immunohistochemistry to study the pathophysiological mechanisms of Zika virus-mediated ocular and neuronal pathology."	
Authors: Garcia G,Paul S,Beshara S,Ramanujan VK,Ramaiah A,Nielsen-Saines K,Li MMH,French SW,Morizono K,Kumar A,Arumugaswami V	

Immunohistochemistry (Frozen) (1)

Oncogene	Year 2015
<b>Tumor-derived inducible heat-shock protein 70 (HSP70) is an essential component of anti-tumor immunity.</b>	Species Mouse
"14-5941 was used in Immunohistochemistry on frozen tissues to support a role for tumor-derived HSP70 in facilitating anti-tumor immunity to limit tumor growth."	
Authors: Dodd K,Nance S,Quezada M,Janke L,Morrison JB,Williams RT,Beere HM	

More applications with references on thermofisher.com

- ICC/IF (1)
- Flow (127)
- Neu (3)
- FN (6)
- Misc (3)

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