

NK1.1 Monoclonal Antibody (PK136), eBioscience™

Product Details

Size	50 µg
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	PK136
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Storage conditions	4° C
RRID	AB_467735

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	126 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 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.

📖 143 References

Western Blot (1)

<p>Cell death & disease</p> <p>Intestinal vitamin D receptor knockout protects from oxazolone-induced colitis.</p> <p>"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."</p> <p>Authors: Shi Y,Liu Z,Cui X,Zhao Q,Liu T</p>	<p>Year 2020</p> <p>Species Mouse</p>
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Immunohistochemistry (2)

<p>Journal of oncology</p> <p>The Effect of <i>miR-520b</i> on Macrophage Polarization and T Cell Immunity by Targeting <i>PTEN</i> in Breast Cancer.</p> <p>"Published figure using NK1.1 monoclonal antibody (Product # 14-5941-82) in Immunohistochemistry"</p> <p>Authors: Zhu Q,Yuan J,He Y,Hu Y</p>	<p>Year 2022</p>
<p>The American journal of pathology</p> <p>Hippo Signaling Pathway Has a Critical Role in Zika Virus Replication and in the Pathogenesis of Neuroinflammation.</p> <p>"14-5941-82 was used in Immunohistochemistry to study the pathophysiological mechanisms of Zika virus-mediated ocular and neuronal pathology."</p> <p>Authors: Garcia G,Paul S,Beshara S,Ramanujan VK,Ramaiah A,Nielsen-Saines K,Li MMH,French SW,Morizono K,Kumar A,Arumugaswami V</p>	<p>Year 2020</p> <p>Species Mouse</p>

Immunohistochemistry (Frozen) (1)

<p>Oncogene</p> <p>Tumor-derived inducible heat-shock protein 70 (HSP70) is an essential component of anti-tumor immunity.</p> <p>"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."</p> <p>Authors: Dodd K,Nance S,Quezada M,Janke L,Morrison JB,Williams RT,Beere HM</p>	<p>Year 2015</p> <p>Species Mouse</p>
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More applications with references on thermofisher.com

- ICC/IF (1)
- Flow (126)
- Neu (3)
- FN (6)
- Misc (3)

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