

NK1.1 Monoclonal Antibody (PK136), Super Bright™ 600, eBioscience™

Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	PK136
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2637451

Applications

Tested Dilution

Publications

Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	30 Publications
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 (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.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

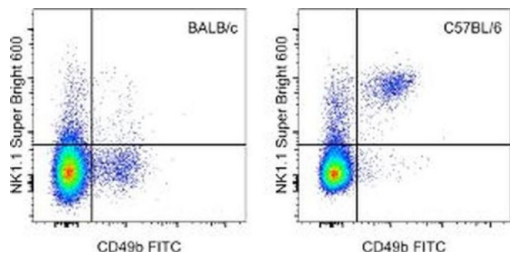
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 2-8°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorochrome performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 600 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For NK1.1 Monoclonal Antibody (PK136), Super Bright™ 600, eBioscience™



NK1.1 Antibody (63-5941-82) in Flow
Staining of BALB/c splenocytes (left) or C57BL/6 splenocytes (right) with Anti-Mouse CD49b (Integrin alpha 2) FITC (Product # 11-5971-82) and 0.5 µg of Anti-Mouse NK1.1 Super Bright 600. Cells in the lymphocyte gate were used for analysis.

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Immunohistochemistry (1)

Journal of oncology

The Effect of *miR-520b* on Macrophage Polarization and T Cell Immunity by Targeting *PTEN* in Breast Cancer.

"Published figure using NK1.1 monoclonal antibody (Product # 63-5941-82) in Immunohistochemistry"

Authors: Zhu Q,Yuan J,He Y,Hu Y

Year
2022

Flow Cytometry (30)

Cell death & disease

Valosin-containing protein (VCP/p97) inhibition reduces viral clearance and induces toxicity associated with muscular damage.

"Published figure using NK1.1 monoclonal antibody (Product # 63-5941-82) in Flow Cytometry"

Authors: Del Rio Oliva M,Basler M

Year
2022

Frontiers in aging neuroscience

Peripheral Neutrophils-Derived Matrix Metalloproteinase-9 Induces Postoperative Cognitive Dysfunction in Aged Mice.

"Published figure using NK1.1 monoclonal antibody (Product # 63-5941-82) in Flow Cytometry"

Authors: Huang L,Tian W,Chen X,Xu H,Dai W,Zhang Y,Wu X,Yu W,Tian J,Su D

Year
2022

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

Miscellaneous PubMed (1)

eLife

Histone deacetylase 3 represses cholesterol efflux during CD4⁺ T-cell activation.

"Published figure using NK1.1 monoclonal antibody (Product # 63-5941-82) in Protein Assays and Analysis"

Authors: Wilfahrt D,Philips RL,Lama J,Kizerwetter M,Shapiro MJ,McCue SA,Kennedy MM,Rajcula MJ,Zeng H,Shapiro VS

Year
2021

More applications with references on thermofisher.com

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