NK1.1 Monoclonal Antibody (PK136), Super Bright™ 436, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	PK136
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 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_2662735

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	15 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 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 105 to 108 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

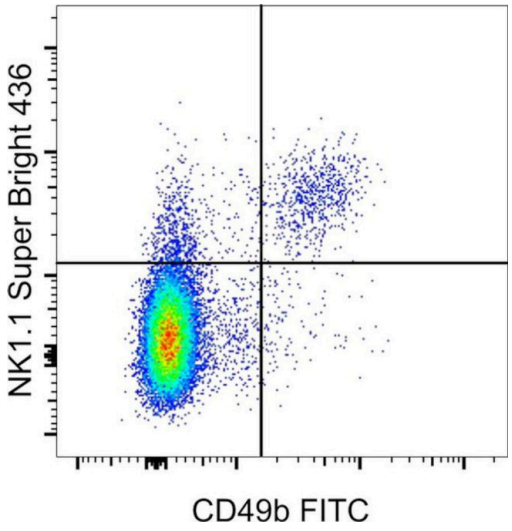
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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.

Excitation: 405 nm; Emission: 436 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™ 436, eBioscience™



NK1.1 Antibody (62-5941-82) in Flow
Staining of C57Bl/6 splenocytes with Anti-Mouse CD49b (Integrin alpha 2) FITC (Product # 11-5971-82) and 0.06 µg of Anti-Mouse NK1.1 Super Bright 600. Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

17 References

Immunohistochemistry (1)

Journal of oncology

Year
2022

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 # 62-5941-82) in Immunohistochemistry"

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

Flow Cytometry (15)

Cell death & disease

Year
2022

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

"Published figure using NK1.1 monoclonal antibody (Product # 62-5941-82) in Flow Cytometry"

Authors: Del Rio Oliva M,Basler M

Frontiers in aging neuroscience

Year
2022

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

"Published figure using NK1.1 monoclonal antibody (Product # 62-5941-82) in Flow Cytometry"

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

View more Flow references on thermofisher.com

Miscellaneous PubMed (1)

eLife

Year
2021

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

"Published figure using NK1.1 monoclonal antibody (Product # 62-5941-82) 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

More applications with references on thermofisher.com