

NK1.1 Monoclonal Antibody (PK136), PE-eFluor™ 610, 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), PE-eFluor™ 610, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	PK136
Conjugate	PE-eFluor™ 610
Excitation/Emission Max	565/606 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2574642

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	30 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 (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 0.5 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.

PE-eFluor® 610 can be excited with laser lines from 488-561 nm and emits at 607 nm. We recommend using a 610/20 band pass filter (equivalent to PE-Texas Red®). Please make sure that your instrument is capable of detecting this fluorochrome.

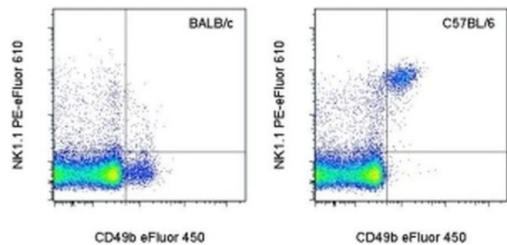
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 607 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For NK1.1 Monoclonal Antibody (PK136), PE-eFluor™ 610, eBioscience™



NK1.1 Antibody (61-5941-82) in Flow
Staining of BALB/c splenocytes (left) or C57BL/6 splenocytes (right) with Anti-Mouse CD49b (Integrin alpha 2) eFluor® 450 (Product # 48-5971-82) and 0.25 µg of Anti-Mouse NK1-1 PE-eFluor® 610. Cells in the lymphocyte gate were used for analysis.

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30 References

Flow Cytometry (30)

Cell death & disease	Year
Valosin-containing protein (VCP/p97) inhibition reduces viral clearance and induces toxicity associated with muscular damage.	2022
"Published figure using NK1.1 monoclonal antibody (Product # 61-5941-82) in Flow Cytometry"	
Authors: Del Rio Oliva M,Basler M	
Frontiers in aging neuroscience	Year
Peripheral Neutrophils-Derived Matrix Metalloproteinase-9 Induces Postoperative Cognitive Dysfunction in Aged Mice.	2022
"Published figure using NK1.1 monoclonal antibody (Product # 61-5941-82) in Flow Cytometry"	
Authors: Huang L,Tian W,Chen X,Xu H,Dai W,Zhang Y,Wu X,Yu W,Tian J,Su D	

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