

NK1.1 Monoclonal Antibody (PK136), Super Bright 645, eBioscience™

| Product Details | |
|-----------------------------|---|
| Size | 100 µg |
| Species Reactivity | Mouse |
| Host/Isotope | Mouse / IgG2a, kappa |
| Recommended Isotype Control | Mouse IgG2a kappa Isotype Control (eBM2a), Super Bright 645, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | PK136 |
| Conjugate | Super Bright 645 |
| 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_2662737 |

| Applications | Tested | Dilution | Published |
|-----------------------|--------|-------------|-----------|
| Flow Cytometry (Flow) | ✓ | 1.0 µg/test | |

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 may be used at less than or equal to 1.0 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 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 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.

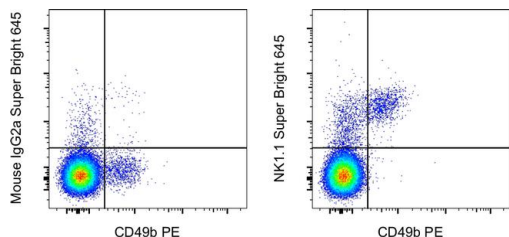
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 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: 405 nm; Emission: 645 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 645, eBioscience™



NK1.1 Antibody (64-5941-82) in Flow

C57BL/6 mouse splenocytes were stained with CD49b Monoclonal Antibody, PE (Product # 12-0491) and 0.5 μ g of Mouse IgG2a kappa Isotype Control, Super Bright 645 (Product # 64-4724-82) (left) or 0.5 μ g of NK1.1 Monoclonal Antibody, Super Bright 645 (right). Cells in the lymphocyte gate were used for analysis.

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