

NK1.1 Monoclonal Antibody (PK136), Brilliant Violet™ 480, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Brilliant Violet™ 480, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	PK136
Conjugate	Brilliant Violet™ 480
Excitation/Emission Max	437/478 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_2925651

Applications	Tested Dilution	Publications
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 (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: 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.

Brilliant Violet™ 480 (BV480) is a dye that emits at 479 nm and is intended for use on cytometers equipped with a violet (405 nm) laser. Please make sure that your instrument is capable of detecting this fluorochrome.

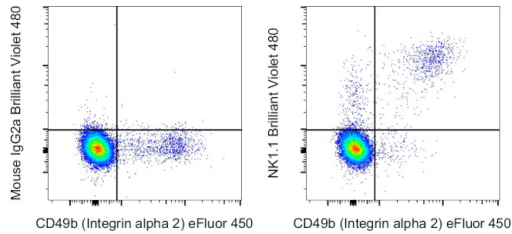
When using two or more Super Bright, Brilliant Violet™, Brilliant Ultra Violet™, or other polymer dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401-42) or Brilliant Stain Buffer™ (Product # 00-4409-75) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer or Brilliant Stain Buffer for more information.

Our internal testing suggests that Brilliant Violet™ 480 (BV480) is not compatible with methanol-based fixation.

Excitation: 440 nm; Emission: 479 nm; Laser: Violet Laser.

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Product Images For NK1.1 Monoclonal Antibody (PK136), Brilliant Violet™ 480, eBioscience™



NK1.1 Antibody (414-5941-80) in Flow

C57BL/6 mouse splenocytes were stained with CD49b (Integrin alpha 2) Monoclonal Antibody, eFluor 450 (Product # 48-5971-82) and 0.5 µg of Mouse IgG2a kappa Isotype Control, Brilliant Violet 480 (Product # 414-4724-81) (left) or 0.5 µg of NK1.1 Monoclonal Antibody, Brilliant Violet 480 (right). Viable cells in the lymphocyte gate were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

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