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Technically
Speaking

CEDARLANE[®]
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for the Science of Tomorrow™

**Anti-Mouse NK Cells (NK 1.1)
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL8994AP	Purified	250µg	1.0 mg/ml	CLCMG2A00
CL8994AP-BULK	Purified	1mg	1.0 mg/ml	CLCMG2A00
CL8994LE	Low Endotoxin	500µg	1.0 mg/ml	CLCMG2A00
CL8994NA	No Azide	1mg	1.0 mg/ml	CLCMG2A00
CL8994B/-3	Biotin	100µg/300µg	0.1 mg/ml	CLCMG2A15
CL8994F	FITC	100µg	0.1 mg/ml	CLCMG2A01
CL8994PE/-3	PE	50µg/300µg	0.1 mg/ml	CLCMG2A04
CL8994APC	APC	100µg	0.1 mg/ml	CLCMG2A05
CL8994AF4	Alexa Fluor [®] 488	100 µg	0.1 mg/ml	N/A
CL8994AF6	Alexa Fluor [®] 647	100 µg	0.1 mg/ml	N/A
CL8994AF7	Alexa Fluor [®] 700	100 µg	0.1 mg/ml	N/A

Alexa Fluor[®] is a registered trademark of Life Technologies Corporation.

Isotype: Mouse IgG2a

DESCRIPTION:

Cedarlane's anti-mouse NK cells monoclonal antibody is specific for mouse NK cells in selected strains of mice (i.e. C57BL, FVB/N, NZB but not A, AKR, BALB/c, CBA/J, C3H, C57BR, C58, DBA/1, DBA/2, SJL and 129). Clone PK136 is specific for mouse NK1.1, also known as NKR-PIC and Ly 55. Mouse NK1.1 is expressed on NK cells and NKT cells on the following strains: C57BL, FVB/N and NZB. There are published reports that PK136 mAb binds to NKR-PIB on SJL/K NK cells⁴.

This antibody is suitable for use in flow cytometry and with paraffin-embedded sections. This clone has also been reported to work for *in-vitro* and *in-vivo* depletion assays^{5,6,7}.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography). For maximal recovery of contents, please quick-spin vial before opening.

LE: Purified Ig buffered in PBS, no preservative, 0.2µm sterile filtered. (Purified from cell culture supernatant via Protein G Chromatography)

No Azide: Purified Ig buffered in PBS, no preservative, 0.2µm sterile filtered. (Purified from ascitic fluid via Protein G Chromatography)

Biotin, FITC, APC, PE, AF488, AF647 and AF700: Biotin/FITC/APC/AF488/AF647/AF700 conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

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STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE APC, PE, AF488, AF647 and AF700 conjugates. For long term storage (Purified, Biotin and FITC), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

SPECIFICATIONS:

Clone: PK136

Immunogen: NK-1⁺ cells from mouse spleen and bone marrow.

Specificity: Mouse NK Cells (NK1.1)

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

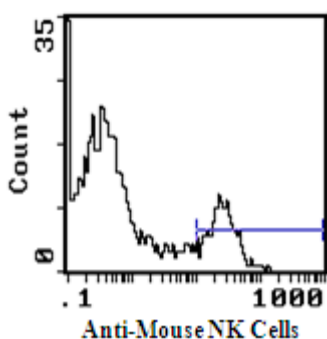
Mouse Strain: C57BL/6

Cell Concentration: 1.0 x 10⁶ cells per test

Antibody Concentration Used: 0.5µg /10⁶ cells

<u>Cell Source</u>	<u>Percentage of cells stained above control:</u>
Splenice T Cells*	13.3%

*(T cells isolated with CL101 – Cedarlane’s Mouse T Cell Recovery Column Kit)



N.B. Appropriate control samples should always be included in any labeling studies.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

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