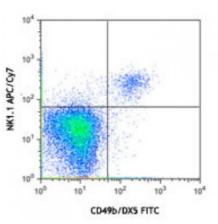
Product Data Sheet

APC/Cy7 anti-mouse NK-1.1

Catalog # / Size:	1143615 / 25 μg 1143620 / 100 μg
Clone:	PK136
Isotype:	Mouse IgG2a, к
Immunogen:	NK-1+ cells from mouse spleen and bone marrow
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography, and conjugated with APC/Cy7 under optimal conditions. The solution is free of unconjugated APC/Cy7 and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.2



C57BL/6 mouse splenocytes were stained with CD49b/DX5 FITC and NK1.1 (clone PK136) APC/Cy7 (top) or mouse IgG2a APC/Cy7 isotype control (bottom).

Applications:

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Applications:	Flow Cytometry	8 10 ³
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 1.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.	Mouse IgG2a APC/Cy7 isotype co
Application Notes:	Additional reported applications (for the relevant formats) include: immunoprecipitation ^{1,2} , complement-dependent cytotoxicity3, <i>in vivo</i> depletion ^{4,5,9,10} , mediation of <i>in vitro</i> redirected lysis ⁶ , blocking of NK cell function ⁷ , induction of proliferation ⁸ , immunohistochemical staining of frozen sections ¹¹ , and immunofluorescence microscopy ¹¹ . The LEAF [™] purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 108712).	
Application References:	 Carlyle JR, <i>et al.</i> 1999. <i>J. Immunol.</i> 162:5917. (IP) Sentman CL, <i>et al.</i> 1989. <i>Hybridoma</i> 8:605. (IP) Koo GC, <i>et al.</i> 1984. <i>Hybridoma</i> 3:301. (Cyt) Sentman CL, <i>et al.</i> 1989. <i>J. Immunol.</i> 142:1847. (Dep Koo GC, <i>et al.</i> 1986. <i>J. Immunol.</i> 137:3742. (Deplete) Karlhofer FM, <i>et al.</i> 1991. <i>J. Immunol.</i> 146:3662. Kung SK, <i>et al.</i> 1999. <i>J. Immunol.</i> 162:5876. (Block) 	

ontrol 103 102 104 CD49b/DX5 FITC

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- 15. Lee H, et al. 2014. Invest Ophthalmol Vis Sci. 55:2885. PubMed
- **Description:** NK-1.1 surface antigen, also known as CD161b/CD161c and Ly-55, is encoded by the NKR-P1B/NKR-P1C gene. It is expressed on NK cells and NK-T cells in some mouse strains, including C57BL/6, FVB/N, and NZB, but not AKR, BALB/c, CBA/J, C3H, DBA/1, DBA/2, NOD, SJL, and 129. Expression of NKR-P1C antigen has been correlated with lysis of tumor cells *in vitro* and rejection of bone marrow allografts *in vivo*. NK-1.1 has also been shown to play a role in NK cell activation, IFN-γ production, and cytotoxic granule release. NK-1.1 and DX5 are commonly used as mouse NK cell markers.

Antigen	1. Lanier LL. 1997. <i>Immunity</i> 6:371.
References:	2. Yokoyama WM, <i>et al.</i> 1993. <i>Ann. Rev. Immunol.</i> 11:613.
	3. Koo GC, <i>et al.</i> 1986. <i>J. Immunol.</i> 137:3742.
	4. Giorda R, <i>et al.</i> 1991. <i>J. Immunol.</i> <