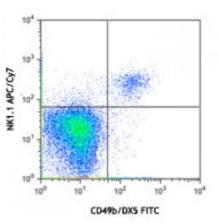
## **Product Data Sheet**

## 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
<b>Reactivity:</b>	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.
<b>Concentration:</b>	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:**

		0
Applications:	Flow Cytometry	8 10 <sup>3</sup>
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 $\leq 1.0$ 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 <sup>1,2</sup> , complement-dependent cytotoxicity3, <i>in vivo</i> depletion <sup>4,5,9,10</sup> , mediation of <i>in vitro</i> redirected lysis <sup>6</sup> , blocking of NK cell function <sup>7</sup> , induction of proliferation <sup>8</sup> , immunohistochemical staining of frozen sections <sup>11</sup> , and immunofluorescence microscopy <sup>11</sup> . The LEAF <sup>™</sup> purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 108712).	
Application References:	<ol> <li>Carlyle JR, <i>et al.</i> 1999. <i>J. Immunol.</i> 162:5917. (IP)</li> <li>Sentman CL, <i>et al.</i> 1989. <i>Hybridoma</i> 8:605. (IP)</li> <li>Koo GC, <i>et al.</i> 1984. <i>Hybridoma</i> 3:301. (Cyt)</li> <li>Sentman CL, <i>et al.</i> 1989. <i>J. Immunol.</i> 142:1847. (Dep</li> <li>Koo GC, <i>et al.</i> 1986. <i>J. Immunol.</i> 137:3742. (Deplete)</li> <li>Karlhofer FM, <i>et al.</i> 1991. <i>J. Immunol.</i> 146:3662.</li> <li>Kung SK, <i>et al.</i> 1999. <i>J. Immunol.</i> 162:5876. (Block)</li> </ol>	

ontrol 103 102 104 CD49b/DX5 FITC

(Deplete)

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

- Reichlin A, *et al.* 1998. *Immunol. Cell Biol.* 76:143.
   Drobyski W, *et al.* 1996. *Blood* 87:5355. (Deplete)
   Andoniou CE, *et al.* 2005. *Nat. Immunol.* 6:1011. (Deplete)
   Kanwar JR, et al. 2001. J. Natl. Cancer Inst. 93:1541. (IHC, IF)
   Kroemer A, *et al.* 2008. *J. Immunol.* 180:7818. <u>PubMed</u>
   Kim JY, *et al.* 2009. *Exp Mol Med.* 30:288. <u>PubMed</u>
   Bankoti J, *et al.* 2010. *Toxicol. Sci.* 115:422. (FC) <u>PubMed</u>
- 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.
<b>References:</b>	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> <