

APC/Cy7 anti-mouse NK-1.1

Catalog # / Size: 1143620 / 100 µg
1143615 / 25 µg

Clone: PK136

Isotype: Mouse IgG2a, κ

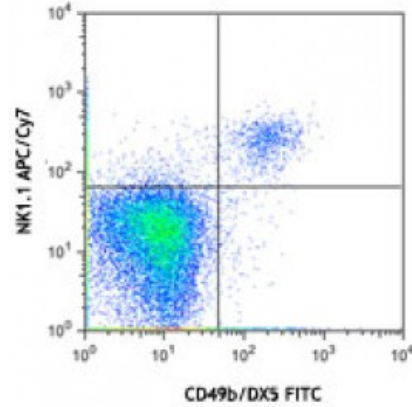
Immunogen: NK-1+ cells from mouse spleen and bone marrow

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



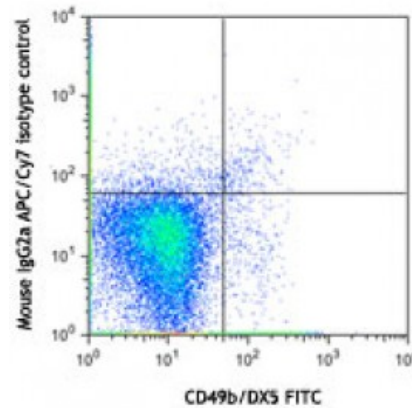
C57BL/6 mouse splenocytes were stained with CD49b/DX5 FITC and NK1.1 (clone PK136) APC/Cy7 (top) or mouse IgG2a APC/Cy7 isotype control (bottom).

Applications:

Applications: Flow Cytometry

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.

Application Notes: Additional reported applications (for the relevant formats) include: immunoprecipitation^{1,2}, complement-dependent cytotoxicity³, *in vivo* depletion^{4,5,9,10}, mediation of *in vitro* redirected lysis⁶, blocking of NK cell function⁷, induction of proliferation⁸, immunohistochemical staining of frozen sections¹¹, and immunofluorescence microscopy¹¹. 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:

1. Carlyle JR, *et al.* 1999. *J. Immunol.* 162:5917. (IP)
2. Sentman CL, *et al.* 1989. *Hybridoma* 8:605. (IP)
3. Koo GC, *et al.* 1984. *Hybridoma* 3:301. (Cyt)
4. Sentman CL, *et al.* 1989. *J. Immunol.* 142:1847. (Deplete)
5. Koo GC, *et al.* 1986. *J. Immunol.* 137:3742. (Deplete)
6. Karlhofer FM, *et al.* 1991. *J. Immunol.* 146:3662.
7. Kung SK, *et al.* 1999. *J. Immunol.* 162:5876. (Block)

8. Reichlin A, *et al.* 1998. *Immunol. Cell Biol.* 76:143.
 9. Drobyski W, *et al.* 1996. *Blood* 87:5355. (Deplete)
 10. Andoniou CE, *et al.* 2005. *Nat. Immunol.* 6:1011. (Deplete)
 11. Kanwar JR, *et al.* 2001. *J. Natl. Cancer Inst.* 93:1541. (IHC, IF)
 12. Kroemer A, *et al.* 2008. *J. Immunol.* 180:7818. [PubMed](#)
 13. Kim JY, *et al.* 2009. *Exp Mol Med.* 30:288. [PubMed](#)
 14. Bankoti J, *et al.* 2010. *Toxicol. Sci.* 115:422. (FC) [PubMed](#)
 15. Lee H, *et al.* 2014. *Invest Ophthalmol Vis Sci.* 55:2885. [PubMed](#)
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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**
- References:**
1. Lanier LL. 1997. *Immunity* 6:371.
 2. Yokoyama WM, *et al.* 1993. *Ann. Rev. Immunol.* 11:613.
 3. Koo GC, *et al.* 1986. *J. Immunol.* 137:3742.
 4. Giorda R, *et al.* 1991. *J. Immunol.* <