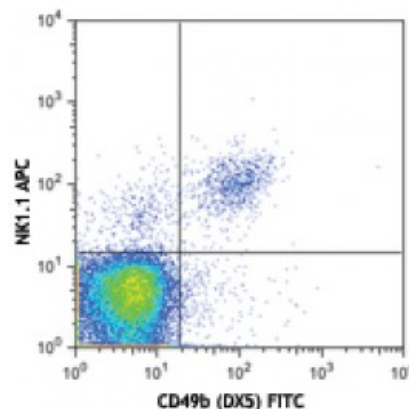


**APC anti-mouse NK-1.1**

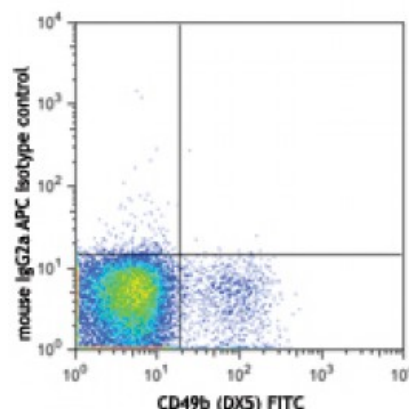
<b>Catalog # / Size:</b>	1143550 / 100 µg 1143545 / 25 µg
<b>Clone:</b>	PK136
<b>Isotype:</b>	Mouse IgG2a, κ
<b>Immunogen:</b>	NK-1+ cells from mouse spleen and bone marrow
<b>Reactivity:</b>	Mouse
<b>Preparation:</b>	The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.
<b>Formulation:</b>	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 (top) or mouse IgG2a APC isotype control (bottom).

**Applications:**

<b>Applications:</b>	Flow Cytometry
<b>Recommended Usage:</b>	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.
<b>Application Notes:</b>	Additional reported applications (for the relevant formats) include: immunoprecipitation <sup>1,2</sup> , complement-dependent cytotoxicity <sup>3</sup> , <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™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 108712).



<b>Application References:</b>	<ol style="list-style-type: none"> <li>1. Carlyle JR, <i>et al.</i> 1999. <i>J. Immunol.</i> 162:5917. (IP)</li> <li>2. Sentman CL, <i>et al.</i> 1989. <i>Hybridoma</i> 8:605. (IP)</li> <li>3. Koo GC, <i>et al.</i> 1984. <i>Hybridoma</i> 3:301. (Cyt)</li> <li>4. Sentman CL, <i>et al.</i> 1989. <i>J. Immunol.</i> 142:1847. (Deplete)</li> <li>5. Koo GC, <i>et al.</i> 1986. <i>J. Immunol.</i> 137:3742. (Deplete)</li> <li>6. Karlhofer FM, <i>et al.</i> 1991. <i>J. Immunol.</i> 146:3662.</li> <li>7. Kung SK, <i>et al.</i> 1999. <i>J. Immunol.</i> 162:5876. (Block)</li> </ol>
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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- $\gamma$  production, and cytotoxic granule release. NK-1.1 and DX5 are commonly used as mouse NK cell markers.

**Antigen**  
**References:**

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