

## iF647Anti-Mouse NK-1.1 Antibody

<b>Catalog Number:</b>	203803, 203804
<b>Size:</b>	25 tests, 100 tests
<b>Target Name:</b>	NK-1.1, CD161, NKR-P1C, NKR-P1B, Ly-55
<b>Regulatory Status:</b>	RUO

### PRODUCT DETAILS

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<b>Clone:</b>	PK136
<b>Application:</b>	Flow Cytometry
<b>Reactivity:</b>	Mouse
<b>Format:</b>	iF647
<b>Isotype:</b>	Mouse IgG2a
<b>Antibody Type:</b>	Monoclonal
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA
<b>Protein Concentration:</b>	Supplied at a lot-specific concentration.
<b>Storage&amp;Handling:</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
<b>Recommended Usage:</b>	For flow cytometric staining, it is recommended to use 5 uL of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application. iF647 has an excitation max at 656 nm and an emission max at 670 nm.
<b>Excitation Laser:</b>	Red Laser (633 nm)
<b>Isotype Control:</b>	301511

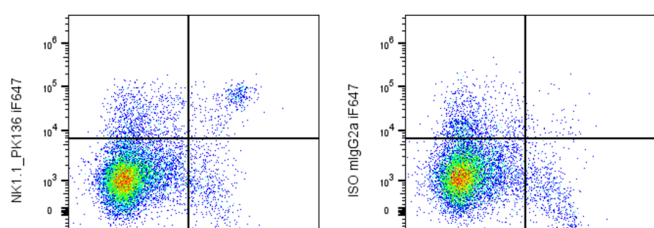
### BACKGROUND INFORMATION

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NK-1.1, also known as CD161b/CD161c or Ly-55, is a type II transmembrane C-type lectin receptor encoded by the Klrb1 (NKR-P1) gene family in mice. It is predominantly expressed on natural killer (NK) cells and a subset of invariant NKT cells in selected mouse strains, including C57BL/6, FVB/N, and NZB. The activating isoform NKR-P1C lacks an inhibitory motif and promotes NK cell cytotoxicity, IFN- $\gamma$  production, and tumor cell lysis. NK-1.1 expression correlates with effective immune surveillance and graft rejection, making it a widely used marker for identifying and studying murine NK and NKT cell populations.

### PRODUCT DATA

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Mouse splenocytes were stained with PE anti-Mouse CD49d and either iF647 anti-NK1.1 antibody clone PK136 (left panel) or an isotype control (right panel).

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