

## PE anti-mouse NK-1.1

**Catalog # /** 1382520 / 100 µg

**Size:** 1382515 / 25 µg

**Clone:** S17016D

**Isotype:** Mouse IgG2a, κ

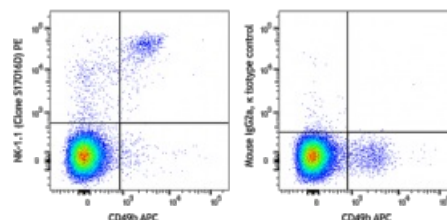
**Immunogen:** NK-1+ cells from mouse spleen and bone marrow

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.2 mg/ml



C57BL/6 mouse splenocytes were stained with CD49b (DX5) APC and NK1.1 (clone S17016D) PE (left) or mouse IgG2a, κ PE isotype control (right).

## 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 ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Clone S17016D cross-blocks anti-mouse NK1.1 clone PK136, and can stain for NK1.1 post-formaldehyde and methanol-based fixation based on in-house testing.

### Application References:

1. Lanier LL. 1997. *Immunity* 6:371.
2. Yokoyama WM, Seaman WE. 1993. *Annu. Rev. Immunol.* 11:613.
3. Koo GC, et al. 1986. *J. Immunol.* 137:3742.
4. Giorda R, Trucco M. 1991. *J. Immunol.* 147:1701.

**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, Seaman WE. 1993. *Annu. Rev. Immunol.* 11:613.
3. Koo GC, *et al.* 1986. *J. Immunol.* 137:3742.
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