

**PE/Cyanine5 anti-mouse NK-1.1**

**Catalog # / Size:** 1382620 / 100 µg  
1382615 / 25 µg

**Clone:** S17016D

**Isotype:** Mouse IgG2a, κ

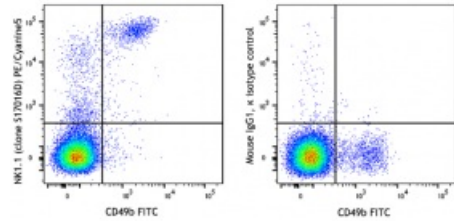
**Immunogen:** Mouse NK1.1-transfectants

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Cyanine5 under optimal conditions.

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

**Concentration:** 0.2 mg/mL



C57BL/6 mouse splenocytes were stained with FITC anti-mouse CD49b and PE/Cyanine5 anti-mouse NK1.1 (clone S17016D) (left) or PE/Cyanine5 mouse IgG2a, κ 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. Sacco P, *et al.* 1995. *J. Biol. Chem.* 270:20201. (WB)
  2. Johnson KR, *et al.* 1993. *Exp. Cell Res.* 207:252.
  3. Gupta K, *et al.* 2012. *J. Ped. Hem. Onc.* 34:320. (IHC-P)
  4. Radice G, *et al.* 1997. *Dev. Bio.* 181:64. (IHC-P)

**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.
  4. Giorda R, Trucco M. 1991. *J. Immunol.* 147:1701.