SONY

# Product Data Sheet

## PE/Cyanine5 anti-mouse NK-1.1

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

**Clone:** S17016D

**Isotype:** Mouse IgG2a, κ

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

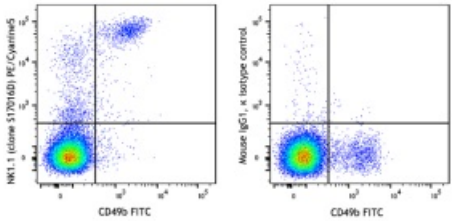
**Reactivity:** Mouse

**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

**Workshop Number:** 750 under optimal conditions.

**Concentration:** 0.2



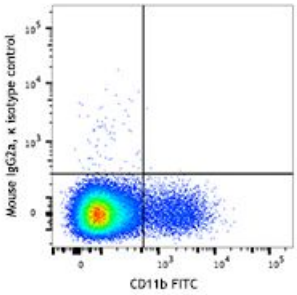

C57BL/6 mouse splenocytes were stained with FITC anti-mouse CD49b and PE/Cyanine5 anti-mouse NK1.1 (clone S17016D) (left) or PE/Cyanine5 mouse IgG2a, κ isotype control (right).

## 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.




C57BL/6 mouse bone marrow cells were stained with CD150 (SLAM) (clone TC15-12F12.2) APC/Fire™ 750 (filled histogram) or rat IgG2a, κ APC/Fire™ 750 isotype control (open histogram).

**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.


For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.


Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

**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.



For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.