SONY

Product Data Sheet

FITC anti-mouse NK-1.1

Catalog # / Size: 1382540 / 100 µg
1382535 / 25 µg

Clone: S17016D

Isotype: Mouse IgG2a, κ

Immunogen: Mouse NK1.1-transfectants

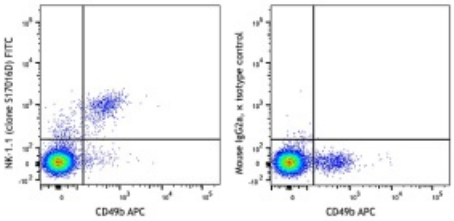
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions.

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

Workshop Number: V-CD28.05

Concentration: 0.5



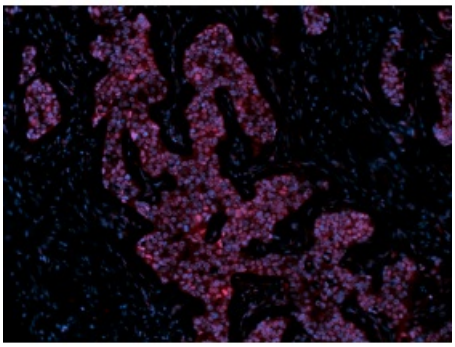
C57BL/6 mouse splenocytes were stained with CD49b (DX5) APC and NK1.1 (clone S17016D) FITC (left) or mouse IgG2a, κ APC isotype control (right).

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 ≤ 0.5 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.



Bend.3 mouse endothelial cells were stained with CD63 (clone NVG-2) FITC (filled histogram) or rat IgG2a, κ FITC isotype control (open histogram).

Application References:

1. Verjan Garcia N, *et al.* 2011. *J. Immunol.* 187:2268. (WB, IF)

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.

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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.

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