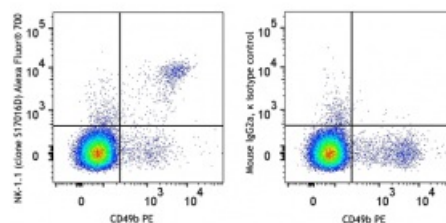


Alexa Fluor® 700 anti-mouse NK-1.1

Catalog # /	1382560 / 100 µg
Size:	1382555 / 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 Alexa Fluor® 700 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Workshop Number:	HCDM listed
Concentration:	0.5 mg/mL



C57BL/6 mouse splenocytes were stained with CD49b (DX5) PE and NK-1.1 (clone S17016D) Alexa Fluor® 700 (left) or mouse IgG2a, κ Alexa Fluor® 700 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.

* Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

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. Hastings WD, et al. 2009. *Eur. J. Immunol.* 39:2492. (Costim)
2. Jones RB, et al. 2008. *J. Exp. Med.* 205:2763. (Block)
3. Klibi J, et al 2009. *Blood* 113:1957. (FC, Block)

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.