

Product Data Sheet

Purified anti-mouse CD1d (CD1.1, Ly-38)

Catalog # / Size: 123501 / 50 µg
123502 / 500 µg

Clone: 1B1

Isotype: Rat IgG2b, κ

Immunogen: Mouse Cd1.1 cDNA-transfected RMA-S mouse T lymphoma

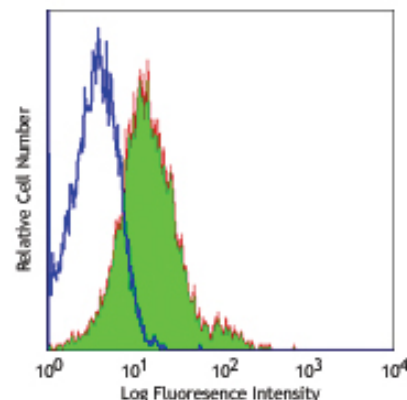
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography.

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

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



C57BL/6 mouse splenocytes stained with purified 1B1, followed anti-rat IgG FITC

Applications:

Applications: FC - *Quality tested*
IHC, IP - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent 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: Additional reported applications (for the relevant formats) include: immunoprecipitation, immunohistochemical staining, and blocking function³.

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Application References:

1. Fischer K, *et al.* 2004. *P. Natl. Acad. Sci. USA* 101:10685. (Block)
2. Brozovic S, *et al.* 2004. *Nat. Med.* 10:535.
3. Brossay L, *et al.* 1997. *J. Immunol.* 159:1216. (Block)

Description: CD1d, known as CD1.1 and Ly-38, is a 48 kD type I membrane glycoprotein with structural similarities to MHC class I and is non-covalently associated with β2-microglobulin. In humans, CD1 family consists of group I proteins (CD1a, CD1b, and CD1c), group II (CD1d), and group III (CD1e). But CD1d is the only CD1 molecule has been found in mouse. Mouse CD1d has broad tissue distribution, and is found on leukocytes, dendritic cells, epithelial cells, and thymocytes. CD1d plays a role in non-peptide glycolipid antigen presentation to CD1d-restricted T cells. It has been shown that PKCδ is a critical regulator of CD1d-mediated antigen presentation.

Antigen References:

1. Brudin N, *et al.* 1998. *J. Immunol.* 161:3271.
2. Amano M, *et al.* 1998. *J. Immunol.* 161:1710.
3. Brossay L, *et al.* 1997. *J. Immunol.* 159:1216.
4. Dougan SK, *et al.* 2007. *Curr. Top. Microbiol. Immunol.* 314:113.
5. Brutkiewicz RR, *et al.* 2007. *Eur. J. Immunol.* 37:2390.

Related Products:

Product
APC Goat anti-rat IgG (minimal x-reactivity)
Biotin Goat anti-rat IgG (minimal x-reactivity)
FITC Goat anti-rat IgG (minimal x-reactivity)
HRP Goat anti-rat IgG (minimal x-reactivity)
PE Goat anti-rat IgG (minimal x-reactivity)
Cell Staining Buffer
Purified Rat IgG2b, κ Isotype Ctrl
Cy3 Goat anti-rat IgG (minimal x-reactivity)

Clone

Poly4054
Poly4054
Poly4054
Poly4054
Poly4054
Poly4054
RTK4530
Poly4054

Application

FC
FC, ELISA, WB
FC
ELISA, IF, IHC, WB
FC
FC, ICC, ICFC
FC, ICC, ICFC, IF, IHC, IP, WB
IF



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