

Product Data Sheet

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

Catalog # / Size: 123503 / 50 µg
 123504 / 500 µg
 123515 / 1 mg

Clone: 1B1

Isotype: Rat IgG2b, κ

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

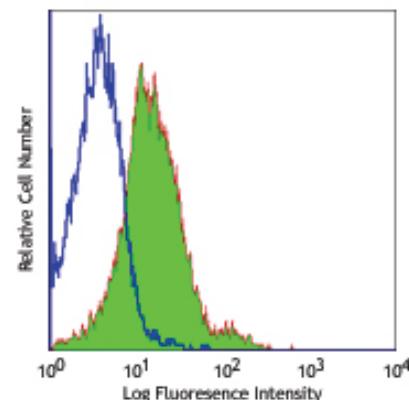
Reactivity: Mouse

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



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

Applications:

Applications: FC - *Quality tested*
 IHC, IP, Block - *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 or 100 µl of whole blood. 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**
 LEAF™ Purified Rat IgG2b, κ Isotype Ctrl

Clone
 RTK4530

Application
 FC, ICFC, WB, IP, ICC, IF,
 IHC, FA



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