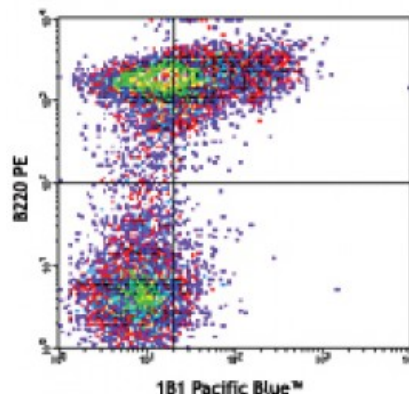


Pacific Blue™ anti-mouse CD1d (CD1.1, Ly-38)

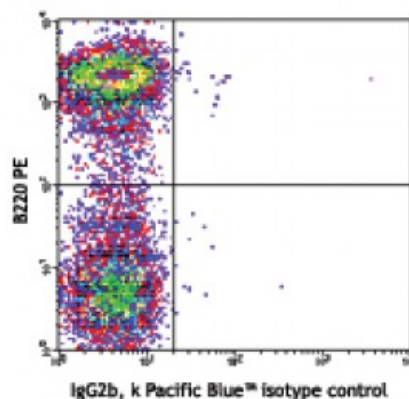
| | |
|--------------------------|---|
| Catalog # / Size: | 1217585 / 100 µg 1217580 / 25 µg |
| Clone: | 1B1 |
| Isotype: | Rat IgG2b, κ |
| Immunogen: | Mouse Cd1.1 cDNA-transfected RMA-S mouse T lymphoma |
| Reactivity: | Mouse |
| Preparation: | The antibody was purified by affinity chromatography, and conjugated with Pacific Blue™ under optimal conditions. The solution is free of unconjugated Pacific Blue™. |
| Formulation: | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. |
| Concentration: | 0.5 |



C57/B6 mouse splenocytes were stained with CD1d (clone 1B1) Pacific Blue™ (top) or rat IgG2b, κ Pacific Blue™ isotype control (bottom).

Applications:

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|---------------------------|---|
| 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 ≤1.0 microg per million cells in 100 microL volume or 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. |



* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

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|---------------------------|--|
| Application Notes: | Additional reported applications (for the relevant formats) include: immunoprecipitation, immunohistochemical staining, and blocking function ³ . |
|---------------------------|--|

This product is for research use only and is not to be used for commercial purposes. Use of this product to produce products for sale or for diagnostic, therapeutic or drug discovery purposes is prohibited. In order to obtain a license to use this product for commercial

purposes, contact the Regents of the University of California.

- Application** 1. Fischer K, *et al.* 2004. *P. Natl. Acad. Sci. USA* 101:10685. (Block)
- References:** 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 β 2-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 PKC δ is a critical regulator of CD1d-mediated antigen presentation.

- Antigen** 1. Brudin N, *et al.* 1998. *J. Immunol.* 161:3271.
- References:** 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.