

PerCP/Cy5.5 anti-human CD1d

Catalog # / 2351560 / 100 tests
Size: 2351555 / 25 tests

Clone: 51.1

Isotype: Mouse IgG2b, κ

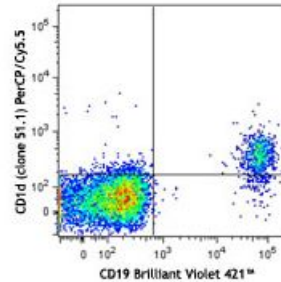
Immunogen: Human CD1d-Fc fusion

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained CD19 Brilliant Violet 421™ and CD1d (clone 51.1, top) PerCP/Cy5.5 or mouse IgG2b, κ PerCP/Cy5.5 isotype control (bottom).

Applications:

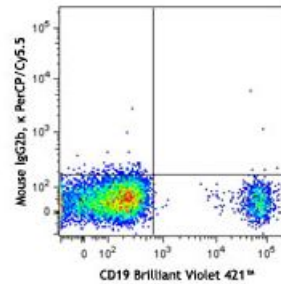
Applications: Flow Cytometry

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 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm. "

Application Notes: Additional reported application (for the relevant formats) include: immunohistochemical staining of frozen tissue sections¹, Western blotting^{1,2}, and induction of IL-12 production by crosslinking of CD1d³.

- Application References:**
1. Exley M, *et al.* 2000. *Immunology* 100:37. (IHC, WB)
 2. Durante-Mangoni E, *et al.* 2004. *J. Immunol.* 173:2159. (WB)
 3. Yue SC, *et al.* 2005. *P. Natl. Acad. Sci. USA* 102:11811. (Stim)



Description: CD1d is a MHC-like, type I transmembrane protein, member of the CD1 family and the immunoglobulin superfamily. On the cell surface, CD1d forms a heterodimer with β 2-microglobulin. CD1d is expressed by antigen-presenting cells such as B cells, monocytes/macrophages, dendritic cells, and some non-lymphoid cells. Cortical thymocytes express CD1d but the expression is lost in mature T cells. CD1d presents lipid antigens to *i*NKT cells analogous to MHC molecule presentation of peptides to T cells.

Antigen
References:

1. Koch M, *et al.* 2005. *Nat. Immunol.* 6:819.
2. Liu X, *et al.* 2010. *P. Natl. Acad. Sci. USA* 107:13010.
3. Zeissig S, *et al.* 2010. *J. Clin. Invest.* 120:2889.
4. Teige A, *et al.*