

**Brilliant Violet 421™ anti-human CD1d**

**Catalog # / Size:** 2351580 / 100 tests  
2351575 / 25 tests

**Clone:** 51.1

**Isotype:** Mouse IgG2b, κ

**Reactivity:** Human

**Concentration:** Lot-specific

**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 ≤0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

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**Application Notes:** Additional reported application (for the relevant formats) include: immunohistochemical staining of frozen tissue sections<sup>1</sup>, Western blotting<sup>1,2</sup>, and induction of IL-12 production by crosslinking of CD1d3.

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**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 β2-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 iNKT cells analogous to MHC molecule presentation of peptides to T cells.