

Brilliant Violet 421™ anti-human CD1d

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

This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.

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.

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 $\beta 2$ -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 iNKT cells analogous to MHC molecule presentation of peptides to T cells.