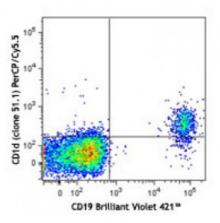
Product Data Sheet

PerCP/Cy5.5 anti-human CD1d

Catalog # / Size:	2351555 / 25 tests 2351560 / 100 tests
Clone:	51.1
Isotype:	Mouse lgG2b, 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).

the CD1 family and

105

Applications:

Applications:	Flow Cytometry	Cys.s
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.	55000 10 ⁴ 10 ³ 10 ² 0 10 ² 10 ³ 10 ⁴ 10 ⁴ CD19 Brilliant Violet 421 ⁴
	* 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, <i>et al.</i> 2000. <i>Immunology</i> 100:37. (IHC, WB) 2. Durante-Mangoni E, <i>et al.</i> 2004. <i>J. Immunol.</i> 173:2159. (WB) 3. Yue SC, <i>et al.</i> 2005. <i>P. Natl. Acad. Sci. USA</i> 102:11811. (Stim)	
Description:	CD1d is a MHC-like, type I transmembrane protein, member of the CD1 f the immunoglobulin superfamily. On the cell surface, CD1d forms a heter	

rms 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.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com

Cortical thymocytes express CD1d but the expression is lost in mature T cells. CD1d presents lipid antigens to NKT cells analogous to MHC molecule presentation of peptides to T cells.

1. Koch M, et al. 2005. Nat. Immunol. 6:819. Antigen **References:** 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.