# antibodies -online.com







**Images** 



### Go to Product page

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Quantity:	100 tests
Target:	CD1d (CD1D)
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD1d antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

# **Product Details**

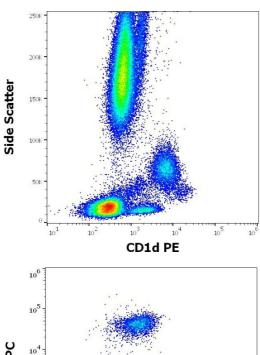
Purpose:	Anti-Hu CD1d PE	
Immunogen:	human CD1d	
Clone:	51-1	
Isotype:	lgG2b kappa	
Specificity:	The mouse monoclonal antibody 51.1 recognizes an extracellular epitope of CD1d, a 38 kDa transmembrane glycoprotein expressed mainly on cortical thymocytes, marginal zone B cells and other antigen presenting cells, but also i e.g. hepatitis C virus-infected livers.	
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions.  Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.	

# **Target Details**

CD1d (CD1D)
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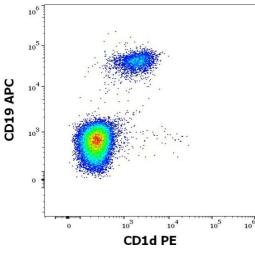
# **Target Details**

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Alternative Name:	CD1d (CD1D Products)	
Background:	CD1d molecule,CD1d belongs to CD1 family of transmembrane glycoproteins, associated with beta2 microglobulin, similarly to MHC I molecules. Unlike other CD1 family members, however, CD1d can be also expressed in a non-glycosylated form, which is not associated with beta2	
	microglobulin. Hence it is not certain how much CD1d plays a role in the presentation of	
	microbial lipid antigens during infection. On the other hand, it is expressed on various antigen	
	presenting cell types. Besides it, CD1d+ thymocytes are involved in the positive selection of sublineage of NKT cells.	
Gene ID:	912	
UniProt:	P15813	
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process	
Application Details		
Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent	
	/ 100 $\mu L$ of whole blood or $10^6$ cells in a suspension. The content of a vial (1 ml) is sufficient fo	
	100 tests.	
Restrictions:	For Research Use only	
Handling		
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which	
	should be handled by trained staff only.	
Storage:	4 °C	
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.	



# **Flow Cytometry**

**Image 1.** Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD1d (51.1) PE antibody (10  $\mu$ L reagent / 100  $\mu$ L of peripheral whole blood).



# **Flow Cytometry**

**Image 2.** Flow cytometry multicolor surface staining of human gated lymphocytes stained using anti-human CD1d (51.1) PE antibody (10  $\mu$ L reagent / 100  $\mu$ L of peripheral whole blood) and anti-human CD19 (LT19) APC antibody (10  $\mu$ L reagent / 100  $\mu$ L of peripheral whole blood).

# Relative Cell Count 100 100 101 102 103 104 105 106 CD1d PE

## **Flow Cytometry**

**Image 3.** Separation of human CD1d positive CD19 positive lymphocytes (red-filled) from CD1d negative CD19 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD1d (51.1) PE antibody (10  $\mu$ L reagent / 100  $\mu$ L of peripheral whole blood).