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30-2858: Anti-Human CD1d PE MAb (Clone: 51.1)

Clonality: Monoclonal

Clone Name: 51.1 Application: FACS

Reactivity: Human, Non-Human Primates

 Conjugate :
 PE

 Gene :
 CD1D

 Gene ID :
 912

 Uniprot ID :
 P15813

Alternative Name : CD1d molecule Isotype : Mouse IgG2b kappa

Immunogen Information: human CD1d

Description

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.

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.

Product Info

Amount: 100 tests (T100)

Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions.

Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Content: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide. **Storage condition:** Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 μ l reagent / 100 μ l of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.



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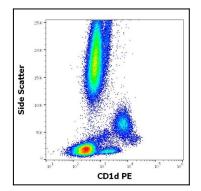


Fig1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD1d (51.1) PE antibody (10 μ l reagent / 100 μ l of peripheral whole blood).

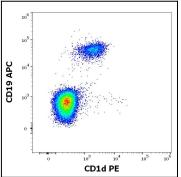


Fig2: Flow cytometry multicolor surface staining of human gated lymphocytes stained using anti-human CD1d (51.1) PE antibody (10 μ l reagent / 100 μ l of peripheral whole blood) and anti-human CD19 (LT19) APC antibody (10 μ l reagent / 100 μ l of peripheral whole blood).

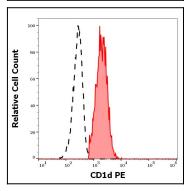


Fig3: Separation of human CD1d positive CD19 positive lymphocytes (red-filled) CD1d negative CD19 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD1d (51.1) PE antibody (10 μ l reagent / 100 μ l of peripheral whole blood).