Technical Data Sheet

PE Mouse Anti-Human CD1c

Product Information

Material Number: 564900
Alternate Name: CD1; R7; M241; BDCA1
Size: 100 Tests
Vol. per Test: 5 µl
Clone: F10/21A3
Immunogen: GM-CSF- and IL-4-activated Human Monocytes
Isotype: Mouse IgG1, κ
Reactivity: QC Testing: Human
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The F10/21A3 monoclonal antibody specifically binds to CD1c. The CD1 family of transmembrane glycoproteins are structurally related to the classical major histocompatibility complex (MHC) proteins. CD1c is a type I transmembrane glycoprotein that forms heterodimers with beta-2-microglobulin. CD1c presents lipids and glycolipids of self or microbial origin to T cells. CD1c is expressed by Langerhans cells, dendritic cells, monocytes, cortical thymocytes, T cells, and some B cells.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry Routinely Tested

Two-color flow cytometric analysis of CD1c expression on human peripheral blood lymphocytes. Human whole blood was treated with BD Pharm Lyse™ (Cat. No. 555899) to lyse erythrocytes. The leucocytes were stained with BD Horizon™ V450 Mouse Anti-Human CD19 antibody (Cat. No. 560353/560354) and either PE Mouse IgG1, κ Isotype Control (Cat. No. 554680; Left Panel) or PE Mouse Anti-Human CD1c (Cat. No. 564900; Right Panel). Two-color contour plots showing the correlated expression of CD19 versus CD1c (or Ig isotype control staining) were derived from gated events with the forward and side light-scatter characteristics of viable lymphocytes. Flow cytometric analysis was performed using a BD LSRFortessa™ Cell Analyzer System.

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### Suggested Companion Products

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### Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use $1 \times 10^6$ cells in a 100-µl experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

### References