

## 30-1550AC: APC Conjugated Anti-CD1b Monoclonal Antibody (Clone: SN13)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	SN13
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Conjugate :</b>	APC
<b>Gene :</b>	CD1B
<b>Gene ID :</b>	910
<b>Uniprot ID :</b>	P29016
<b>Format :</b>	Purified
<b>Alternative Name :</b>	CD1B
<b>Isotype :</b>	Mouse IgG1
<b>Immunogen Information :</b>	A cell membrane antigen preparation that was isolated from normal human thymocytes

### Description

CD1b (also known as R1) together with CD1a and c, belongs to group 1 of CD1 antigens. These non-classical MHC-like glycoproteins serve as antigen-presenting molecules for a subset of T cells that responds to specific lipids and glycolipids found in the cell walls of bacterial pathogens or self-glycolipid antigens such as gangliosides, and they have also roles in antiviral immunity. The trafficking routes of the particular CD1 types differ and correspond to their ability to bind and present different groups of antigens. Besides non-peptide glycolipid antigen presentation to CD1-restricted T cells, CD1b has been implicated in thymocyte development.

### Product Info

<b>Amount :</b>	100 Tests
<b>Purification :</b>	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
<b>Content :</b>	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
<b>Storage condition :</b>	Store at 2-8°C protected from light. Do not freeze.

### Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10<sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

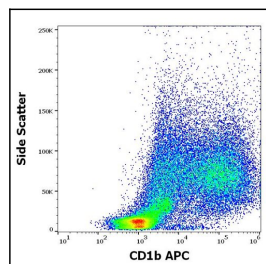


Figure 1: Flow cytometry surface staining pattern of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD1b (SN13) APC antibody (10 µl reagent per million cells in 100 µl of cell suspension).

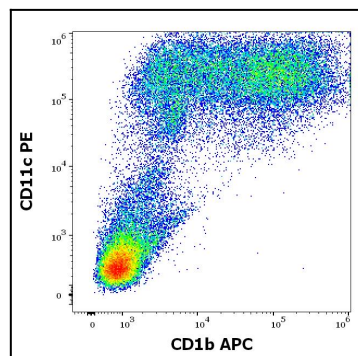


Figure 2: Flow cytometry multicolor surface staining pattern of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells using anti-human CD1b (SN13) APC antibody (10  $\mu$ l reagent per milion cells in 100  $\mu$ l of cell suspension) and anti-human CD11c (BU15) PE antibody (20  $\mu$ l reagent per milion cells in 100  $\mu$ l of cell suspension).

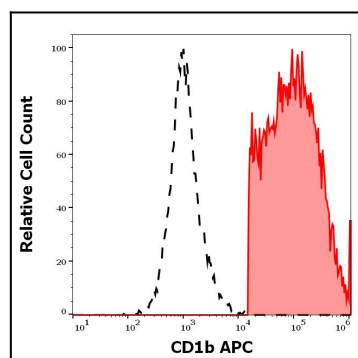


Figure 3: Separation of human CD11c positive CD1b positive cells (red-filled) from CD11c negative CD1b negative cells (black-dashed) in flow cytometry analysis (surface staining) of human stimulated (GM-CSF + IL-4) peripheral blood mononuclear cells stained using anti-human CD1b (SN13) APC antibody (10  $\mu$ l reagent per milion cells in 100  $\mu$ l of cell suspension).