

30-2920: PE conjugated Anti-Hu CD303 Mab (15E3)

Clonality :	Monoclonal
Clone Name :	15E3
Application :	FACS
Reactivity :	Human
Conjugate :	PE
Gene :	CLEC4C
Gene ID :	170482
Uniprot ID :	Q8WTT0
Alternative Name :	BDCA2, CLEC4C, DLEC, HECL, CLECSF7, CLECSF11, PRO34150
Isotype :	Mouse IgG1 kappa
Immunogen Information :	CD303 ectodomain fused with human IgG Fc domain

Description

Specificity: The mouse monoclonal antibody 15E3 recognizes an extracellular epitope of human CD303, a transmembrane glycoprotein expressed on plasmacytoid dendritic cells.

CD303 is an approximately 38 kDa type II transmembrane glycoprotein with an extracellular C-type lectin domain. It is a specific marker of plasmacytoid dendritic cells, and plays roles in capturing of pathogen-related oligosaccharide-containing antigens by them, and in their presentation to T cells. CD303 also mediates a potent inhibition of interferon alpha/beta production in plasmacytoid dendritic cells, thus it represents a potential target for lupus erythematosus therapy.

Product Info

Amount :	100 tests
Purification :	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Storage Buffer: 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 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

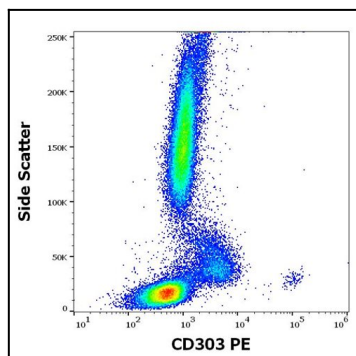


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD303 (15E3) PE antibody (10 μ l reagent / 100 μ l of peripheral whole blood).

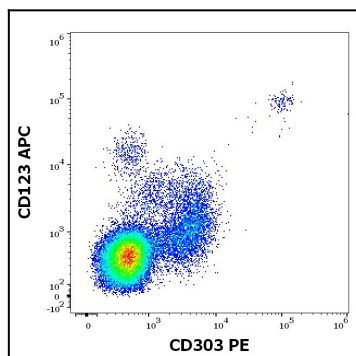


Figure 2: Flow cytometry multicolor surface staining pattern of human peripheral blood mononuclear cells using anti-human CD303 (15E3) PE antibody (10 μ l reagent / 100 μ l of peripheral whole blood) and anti-human CD123 (6H6) APC antibody (10 μ l reagent per milion cells in 100 μ l of cell suspension).

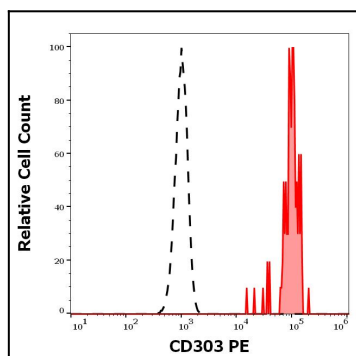


Figure 3: Separation of human CD123 positive CD303 positive plasmacytoid dendritic cells (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD303 (15E3) PE antibody (10 μ l reagent / 100 μ l of peripheral whole blood).