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30-2877AC: APC Conjugated Anti-Human CD303 Mab (Clone:15E3)

Clonality :	Monoclonal
Clone Name :	15E3
Application :	FACS
Reactivity :	Human
Conjugate :	APC
Gene :	CD303
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

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

Product Info

Amount :	100 tests
Purification :	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Formulation: 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.

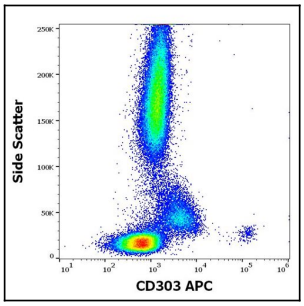


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD303 (15E3) APC antibody (10 µl reagent / 100 µl of peripheral whole blood).

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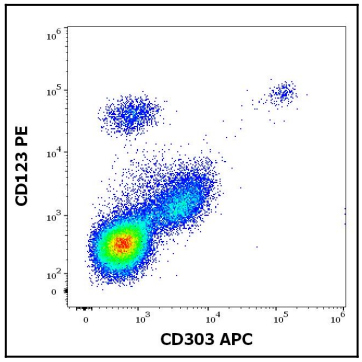


Figure 2: Flow cytometry multicolor surface staining pattern of human peripheral blood mononuclear cells stained using anti-human CD303 (15E3) APC antibody (10 µl reagent / 100 µl of peripheral whole blood) and anti-human CD123 (6H6) PE antibody (10 µl reagent / 100 µl of peripheral whole blood).

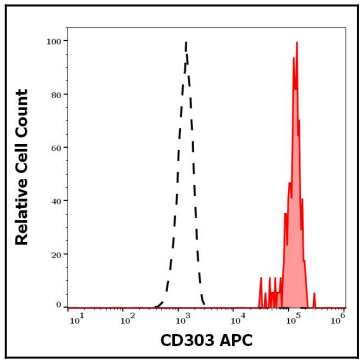


Figure 3: Separation of human CD303 positive CD123 positive plasmacytoid DC (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD303 (15E3) APC antibody (10 µl reagent / 100 µl of peripheral whole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

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