

### 30-2877AF488: Alexa Fluor 488 Conjugated Anti-Human CD303 Mab (Clone:15E3)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	15E3
<b>Application :</b>	IHC-Fr, ICC, FACS
<b>Reactivity :</b>	Human
<b>Gene :</b>	CD303
<b>Gene ID :</b>	170482
<b>Uniprot ID :</b>	Q8WTT0
<b>Alternative Name :</b>	BDCA2; CLEC4C; DLEC; HECL; CLECSF7; CLECSF11; PRO34150
<b>Isotype :</b>	Mouse IgG1 kappa
<b>Immunogen Information :</b>	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

<b>Amount :</b>	100 tests
<b>Purification :</b>	Purified antibody is conjugated with Alexa Fluor 488 NHS ester under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
<b>Content :</b>	Formulation: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
<b>Storage condition :</b>	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 4 µl reagent / 100 µl of whole blood or 10<sup>6</sup> cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

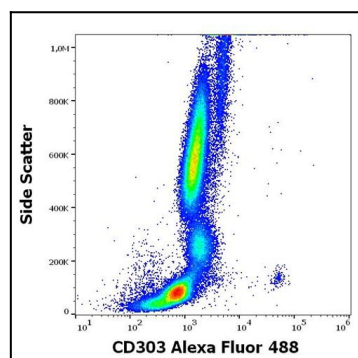


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD303 (15E3) Alexa Fluor 488 antibody (4 µl reagent / 100 µl of peripheral whole blood).

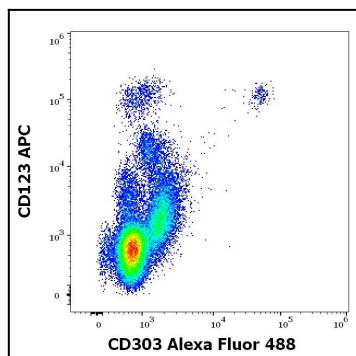


Figure 2: Flow cytometry multicolor surface staining pattern of human mononuclear cells using anti-human CD303 (15E3) Alexa Fluor 488 antibody (4  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood) and anti-human CD123 (6H6) APC antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood).

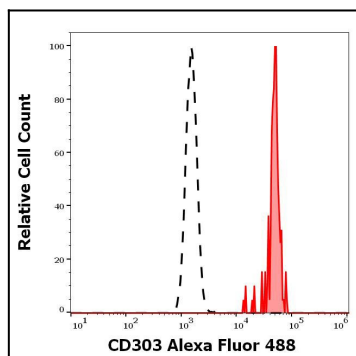


Figure 3: Separation of human CD303 positive CD123 positive plasmacytoid DC (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD303 (15E3) Alexa Fluor 488 antibody (4  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood).