

## 30-2877: Anti-Human CD303 Mab (Clone:15E3)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	15E3
<b>Application :</b>	IHC-Fr,ICC,ELISA,FACS
<b>Reactivity :</b>	Human
<b>Gene :</b>	CLEC4C
<b>Gene ID :</b>	170482
<b>Uniprot ID :</b>	Q8WTT0
<b>Format :</b>	Purified
<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

**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

<b>Amount :</b>	0.1 mg
<b>Purification :</b>	Purified by protein-A affinity chromatography.
<b>Content :</b>	Formulation: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide Concentration : 1 mg/ml
<b>Storage condition :</b>	Store at 2-8°C. Do not freeze.

### Application Note

Flow cytometry: Recommended dilution: 1-5 µg/ml.

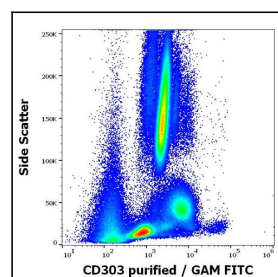


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD303 (15E3) purified antibody (concentration in sample 3 1/4g/ml, GAM FITC).

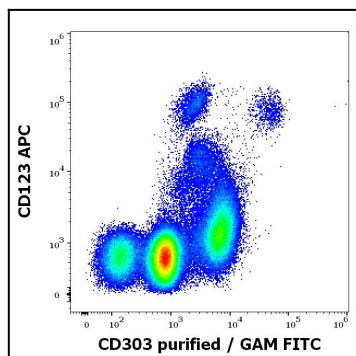


Figure 2: Flow cytometry multicolor surface staining of human peripheral blood mononuclear cells stained using CD303 (15E3) purified antibody (concentration in sample 3  $\mu$ g/ml, GAM FITC) and anti-human CD123 (6H6) APC antibody (10  $\mu$ g/ml reagent / 100  $\mu$ l of peripheral whole blood).

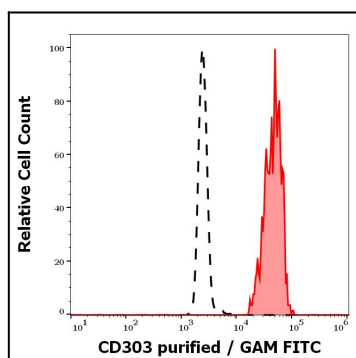


Figure 3: Separation of human CD303 positive CD123 positive plasmacytoid dendritic cells (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD303 (15E3) purified antibody (concentration in sample 3  $\mu$ g/ml, GAM FITC).