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30-2590: Anti-Human CD305 APC (Clone : NKTA255)

Clonality :	Monoclonal
Clone Name :	NKTA255
Application :	FACS
Reactivity :	Human
Conjugate :	APC
Gene :	LAIR1
Gene ID :	3903
Alternative Name :	LAIR1,leukocyte associated immunoglobulin like receptor
Isotype :	Mouse IgG1
Immunogen Information :	Activated NK cells and CD3- thymocytes

Description

CD305, also known as LAIR1 (leukocyte-associated Ig-like receptor 1), is an inhibitory receptor found on many types of peripheral blood cells. It serves to suppress cell cytotoxicity, activation, proliferation, and differentiation regarding autoantigens via its two intracellular ITIM sites. CD305 belongs to the immunoglobulin superfamily and the leukocyte-associated inhibitory receptor family of proteins. It reacts with collagen ligands.
Specificity : The mouse monoclonal antibody NKTA255 recognizes an extracellular epitope of CD305 / LAIR1, a 40 kDa type I transmembrane glycoprotein expressed on NK, T, and B cells, monocytes, dendritic cells, eosinophils, basophils, mast cells, CD34+ hematopoietic progenitor cells and thymocytes.

Product Info

Amount :	100 tests
Purification :	The purified antibody is conjugated with allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Content :	Formulation : Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
Storage condition :	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

Application Note

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

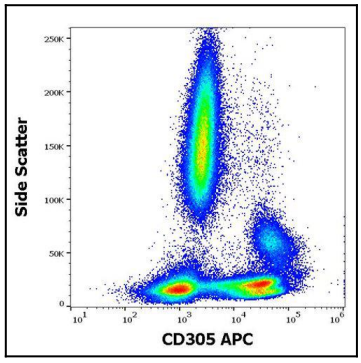


Figure 1 : Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD305 (NKTA255) APC antibody (10 µl reagent / 100 µl of peripheral whole blood).

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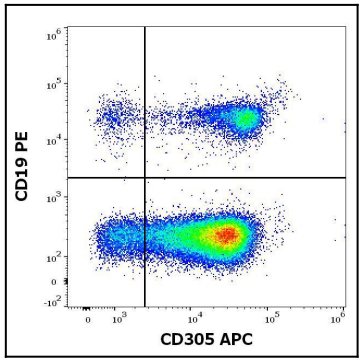


Figure 2 : Flow cytometry multicolor surface staining pattern of human lymphocytes using anti-human CD305 (NKTA255) APC antibody (10 µl reagent / 100 µl of peripheral whole blood) and anti-human CD19 (LT19) PE antibody (20 µl reagent / 100 µl of peripheral whole blood).

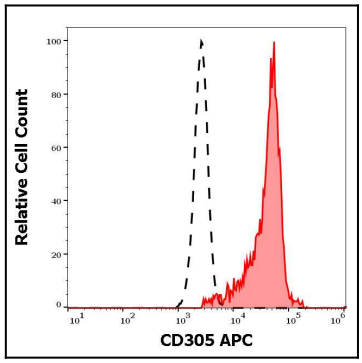


Figure 3 :Separation of human CD305 positive CD19 positive B cells (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD305 (NKTA255) APC antibody (10 µl reagent / 100 µl of peripheral whole blood).

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