Datasheet for ABIN7013987

anti-LY75/DEC-205 antibody (APC)

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2 Images

Overview

Quantity:	100 tests
Target:	LY75/DEC-205 (LY75)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LY75/DEC-205 antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Recombinant Fc-tagged human CD205
Clone:	HD30
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody HD30 recognizes an extracellular epitope of CD205, an approx. 200 kDa C-type lectin transmembrane protein of the MMR (macrophage mannose receptor) family, expressed at high levels on dendritic cells and thymic epithelial cells, and at low levels on lymphocytes, NK cells and monocytes.
Purification:	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

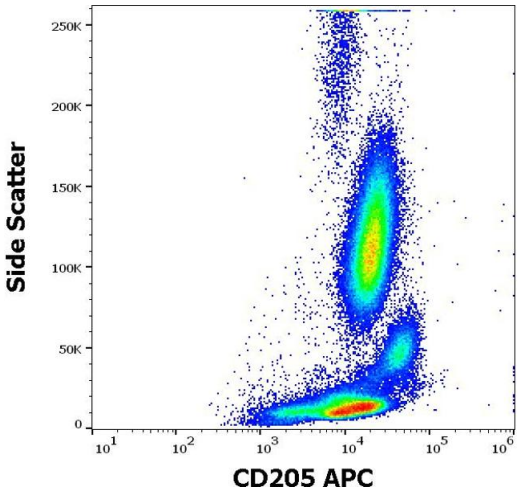
Target:	LY75/DEC-205 (LY75)
Alternative Name:	CD205 (LY75 Products)
Background:	Lymphocyte antigen 75,CD205, also known as DEC-205, is an endocytic receptor of macrophage mannose receptor family. This 205 kDa C-type lectin transmembrane protein mediates adsorptive uptake and its intracellular domain contains coated pit localization sequence and distal acidic motif, which is required for recycling beyond early endosomes through deeper MHC II+ late endosomes and lysosomes. This unique pathway of receptor-mediated uptake proves to be necessary for presentation of antigenic peptides at low doses of ligand. CD205 is responsible for uptake and processing of captured antigens for dendritic cells.,DEC-205, LY75, CLEC13B
Gene ID:	4065
UniProt:	O60449

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Restrictions:	For Research Use only

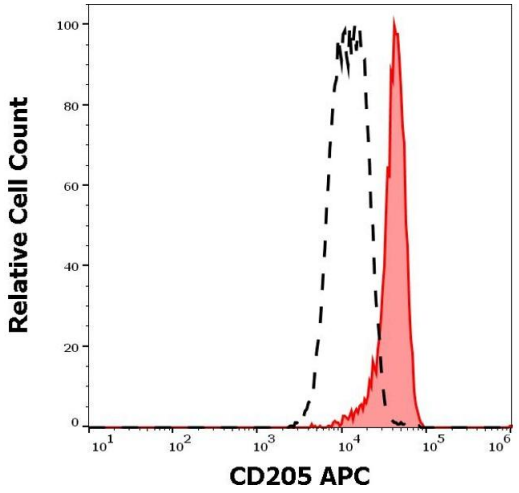
Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD205 (HD30) APC antibody (4 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 2. Separation of human monocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD205 (HD30) APC antibody (4 µL reagent / 100 µL of peripheral whole blood).

