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30-1574AC: APC Conjugated Anti-CD65 Monoclonal Antibody (Clone:VIM8)

Clonality :	Monoclonal
Clone Name :	VIM8
Application :	FACS
Reactivity :	Human
Conjugate :	APC
Gene :	CD65
Alternative Name :	ceramide-dodecasaccharide, type II fucoganglioside
Isotype :	Mouse IgM
Immunogen Information :	THP-1 cell line

Description

CD65 is a fucosylated carbohydrate antigen (ceramide-dodecasaccharide, type II fucoganglioside), which serves as a ligand for CD62E (E-selectin). Its structure is Gal beta1-4 GlcNAc beta1-3 Gal beta1-4 GlcNAc (3-1 Fuc alpha) beta1-3 ceramide. Unlike CD65s, the CD65 antigen does not contain terminal sialic acid, the rest of their structure is identical. CD65 is expressed on granulocytes and monocytes and participates in cell adhesion. It has been reported as important for extravascular infiltration of acute monocytic leukemia cells.
Specificity: The mouse monoclonal antibody VIM8 recognizes human CD65, an asialo-fucoganglioside expressed on the surface of peripheral blood granulocytes (highly) and monocytes (weakly).

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 Tris buffered saline (TBS), pH 8.0, 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.

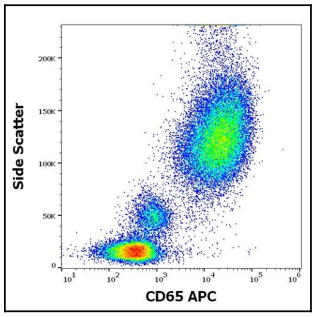

Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD65 (VIM8) APC antibody (10 µl reagent / 100 µl of peripheral whole blood).

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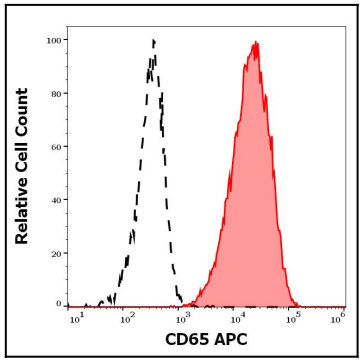

Figure 2: Separation of human neutrophil granulocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD65 (VIM8) APC antibody (10 µl reagent / 100 µl of peripheral whole blood).