

PE anti-human CD65 Antibody

Catalog# / Size	351403 / 25 tests 351404 / 100 tests
Clone	VIM8
Regulatory Status	RUO
Other Names	Ceramide dodecasacharide, VIM2
Isotype	Mouse IgM, κ
Description	CD65, also referred to as ceramide-dodecasaccharide or type II fucoganglioside, is a fucosylated carbohydrate antigen which serves as a ligand for CD62E, commonly known as E-selectin. A key difference between CD65 and CD65s is that CD65 does not have a terminal sialic acid, although the rest of their structures are identical. CD65 is expressed on most myeloid cells during development, highly on granulocytes and weakly on monocytes in peripheral blood, and plays a role in cell adhesion. It has been identified as a key adhesive ligand that plays a significant role in the extravascular infiltration of cells associated with acute myeloid leukemia (AML).

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	THP-1 cell line
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application References (PubMed link indicates BioLegend citation)	1. Lund-Johansen F, <i>et al.</i> 1992. <i>J Immunol.</i> 148:3221-9. 2. Bordessoule D, <i>et al.</i> 1993. <i>Br J Haematol.</i> 83:370-83. 3. Kniep B, <i>et al.</i> 1996. <i>J. Biochem</i> 119:456-62.
RRID	AB_3683373 (BioLegend Cat. No. 351403) AB_3683373 (BioLegend Cat. No. 351404)

Antigen Details

Structure	The structure of CD65 is defined as Gal beta1-4 GlcNAc beta1-3 Gal beta1-4 GlcNAc (3-1 Fuc alpha) beta1-3 ceramide.
Distribution	Most myeloid cells during development, highly on granulocytes and weakly on monocytes in peripheral

blood.

Function	Cell adhesion
Ligand/Receptor	Serve as a ligand for CD62E, also known as E-selection
Cell Type	Granulocytes, Leukocytes, Monocytes
Biology Area	Cell Adhesion, Cell Biology, Immunology
Molecular Family	Adhesion Molecules
Antigen References	1. Joziassse DH, <i>et al.</i> 1989. <i>J. Biol. Chem.</i> 264:14290-7.
Gene ID	NA

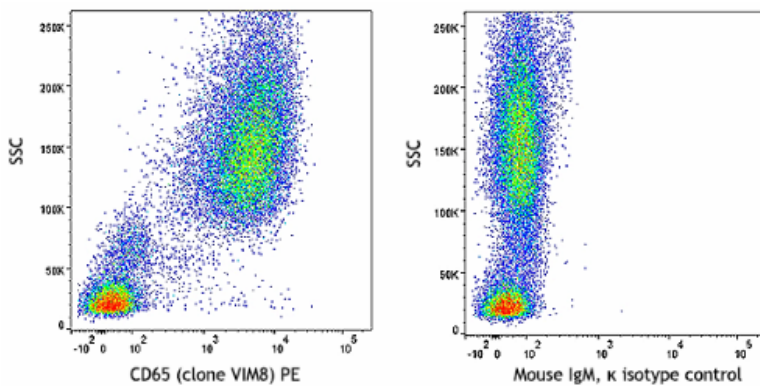
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

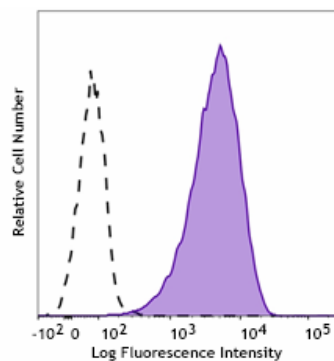
Other Formats

Purified anti-human CD65 Antibody, PE anti-human CD65

Product Data



Human peripheral blood leukocytes were stained with anti-human CD65 (clone VIM8) PE (left) or mouse IgM, κ PE isotype control (right).



Human peripheral blood granulocytes were stained with anti-human CD65 (clone VIM8) PE (filled histogram) or mouse IgM, κ PE isotype control (open histogram).

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