

CD36 Monoclonal Antibody (eBioNL07 (NL07)), eBioscience™

Product Details

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| Size | 100 µg |
| Species Reactivity | Human |
| Host/Isotype | Mouse / IgM |
| Class | Monoclonal |
| Type | Antibody |
| Clone | eBioNL07 (NL07) |
| Conjugate | Unconjugated |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2 |
| Contains | 0.09% sodium azide |
| Storage conditions | 4° C |
| RRID | AB_467217 |

| Applications | Tested Dilution | Publications |
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| Immunohistochemistry (IHC) | - | 2 Publications |
| Flow Cytometry (Flow) | 0.5 µg/test | 5 Publications |
| ChIP assay (ChIP) | - | 1 Publication |

Product Specific Information

Description: The monoclonal antibody eBioNL07 recognizes human CD36, which is a member of the class B scavenger receptor family. CD36 was originally identified as a platelet-membrane glycoprotein also called glycoprotein IV and a receptor for thrombospondin-1 (TSP-1) and extracellular matrix proteins. Binding to TSP-1 is in the CLESH (CD36 LIMP-II Emp sequence homology) domain of CD36. CD36 expression is broad and includes microvascular (but not large vessel) endothelium, adipocytes, skeletal muscle, dendritic cells, epithelia of the retina, breast, and intestine, smooth muscle cells, and hematopoietic cells, including erythroid precursors, platelets, monocytes/macrophages, DCs and megakaryocytes. Expression on platelets is absent on Nak^a negative donors. Unlike other scavenger receptor, CD36 binds LDL that has been exposed to "minimally" oxidizing conditions. CD36 is also a fatty acid translocase (FAT) necessary for the transport of long-chain fatty acids (LCFAs) and therefore may play a role in atherosclerosis.

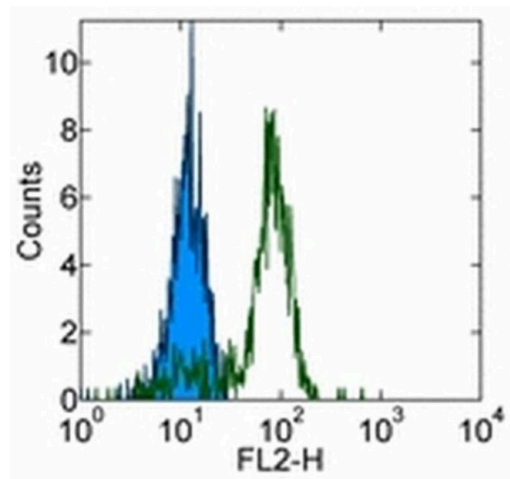
Applications Reported: This eBioNL07 (NL07) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBioNL07 (NL07) antibody has been tested by flow cytometric analysis of human peripheral blood cells. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells /test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.



CD36 Antibody (14-0369-82) in Flow

Staining of normal human peripheral blood cells with 0.25 µg of Mouse IgM Isotype Control Purified (Product # 14-4752-82) (open histogram) or 0.25 µg of Anti-Human CD36 Purified (filled histogram) followed by Anti-Mouse IgM PE (Product # 12-5890-82). Cells in the monocyte gate were used for analysis.

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Immunohistochemistry (2)

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| <p>The Journal of investigative dermatology</p> <p>Spatial and Single-Cell Transcriptional Profiling Identifies Functionally Distinct Human Dermal Fibroblast Subpopulations.</p> <p>"Published figure using CD36 monoclonal antibody (Product # 14-0369-82) in Flow Cytometry"</p> <p>Authors: Philippeos C, Telerman SB, Oulès B, Pisco AO, Shaw TJ, Elgueta R, Lombardi G, Driskell RR, Soldin M, Lynch MD, Watt FM</p> | <p>Year</p> <p>2018</p> |
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| <p>Oncogene</p> <p>Terminal differentiation and loss of tumorigenicity of human cancers via pluripotency-based reprogramming.</p> <p>"Published figure using CD36 monoclonal antibody (Product # 14-0369-82) in ChIP assay"</p> <p>Authors: Zhang X, Cruz FD, Terry M, Remotti F, Matushansky I</p> | <p>Year</p> <p>2013</p> |
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Flow Cytometry (5)

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| <p>Frontiers in genetics</p> <p>Genome-Wide Transcriptional Regulation of the Long Non-coding RNA Steroid Receptor RNA Activator in Human Erythroblasts.</p> <p>"Published figure using CD36 monoclonal antibody (Product # 14-0369-82) in Flow Cytometry"</p> <p>Authors: Sawaengdee W, Cui K, Zhao K, Hongeng S, Fucharoen S, Wongtrakoongate P</p> | <p>Year</p> <p>2020</p> |
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| <p>Molecular cell</p> <p>Single-Cell Analyses Reveal Megakaryocyte-Biased Hematopoiesis in Myelofibrosis and Identify Mutant Clone-Specific Targets.</p> <p>"Published figure using CD36 monoclonal antibody (Product # 14-0369-82) in Flow Cytometry"</p> <p>Authors: Psaila B, Wang G, Rodriguez-Meira A, Li R, Heuston EF, Murphy L, Yee D, Hitchcock IS, Sousos N, O'Sullivan J, Anderson S, Senis YA, Weinberg OK, Calicchio ML, Iskander D, Royston D, Milojkovic D, Roberts I, Bodine DM, Thongjuea S, Mead AJ</p> | <p>Year</p> <p>2020</p> |
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ChIP (1)

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