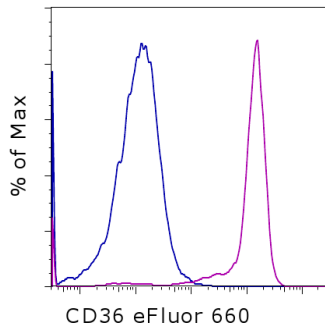


## Anti-Human CD36 eFluor<sup>®</sup> 660 (Alexa Fluor<sup>®</sup> 647 Replacement)

**Catalog Number:** 50-0369

**Also known as:** Platelet glycoprotein 4

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of normal human peripheral blood cells with Mouse IgM Isotype Control eFluor<sup>®</sup> 660 (cat. 50-4752) (blue histogram) or Anti-Human CD36 eFluor<sup>®</sup> 660 (purple histogram). Cells in the monocyte gate were used for analysis.

### Product Information

**Contents:** Anti-Human CD36 eFluor<sup>®</sup> 660 (Alexa Fluor<sup>®</sup> 647 Replacement)

**Catalog Number:** 50-0369

**Clone:** eBioNL07 (NL07)

**Concentration:** 5 uL (0.125 ug)/test

**Host/Isotype:** Mouse IgM

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Contains sodium azide**

REF



LOT



### 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 pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.125 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

**eFluor<sup>®</sup> 660 is a replacement for Alexa Fluor<sup>®</sup> 647. eFluor<sup>®</sup> 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.**

### References

Alessio M, Greco NJ, Primo L, Ghigo D, Bosia A, Tandon NN, Ockenhouse CF, Jamieson GA, Malavasi F. Platelet activation and inhibition of malarial cytoadherence by the anti-CD36 IgM monoclonal antibody NL07. *Blood*. 1993 Dec 15;82(12):3637-47. (NL07, FC, PubMed)

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## Anti-Human CD36 eFluor® 660 (Alexa Fluor® 647 Replacement)

**Catalog Number:** 50-0369

**Also known as:** Platelet glycoprotein 4

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Alessio M, Ghigo D, Garbarino G, Geuna M, Malavasi F. Analysis of the human CD36 leucocyte differentiation antigen by means of the monoclonal antibody NL07. *Cell Immunol.* 1991 Oct 15;137(2):487-500. (NL07, FC, PubMed)

Gruarin P, Ulliers D, Thorne RF, Alessio M. Methionine 156 in the immunodominant domain of CD36 contributes to define the epitope recognized by the NL07 MoAb. *Mol Cell Biochem.* 2000 Nov;214(1-2):89-95. (NL07, PubMed)

### Related Products

00-4222 Flow Cytometry Staining Buffer

50-4752 Mouse IgM Isotype Control eFluor® 660

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