

# CD36 Monoclonal Antibody (eBioNL07 (NL07)), PerCP-eFluor 710, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Mouse
Host/Isotope	Mouse / IgM
Class	Monoclonal
Type	Antibody
Clone	eBioNL07 (NL07)
Conjugate	PerCP-eFluor™ 710
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_11218888

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	3 Publications

## 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 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.

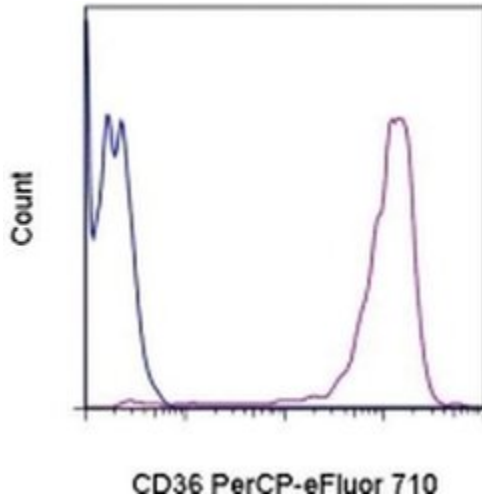
PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100  $\mu$ L cell sample + 100  $\mu$ L IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2  $\mu$ m post-manufacturing filtered.

## Product Images For CD36 Monoclonal Antibody (eBioNL07 (NL07)), PerCP-eFluor 710, eBioscience™



### CD36 Antibody (46-0369-42) in Flow

Staining of normal human peripheral blood cells with staining buffer (autofluorescence) (blue histogram) or Anti-Human CD36 PerCP-eFluor® 710 (purple histogram). Cells in the monocyte gate were used for analysis.

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Flow Cytometry (3)

The Journal of investigative dermatology

**Spatial and Single-Cell Transcriptional Profiling Identifies Functionally Distinct Human Dermal Fibroblast Subpopulations.**

"Published figure using CD36 monoclonal antibody (Product # 46-0369-42) in Flow Cytometry"

Authors: Philippeos C, Teleman SB, Oulès B, Pisco AO, Shaw TJ, Elgueta R, Lombardi G, Driskell RR, Soldin M, Lynch MD, Watt FM

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

Journal of immunology (Baltimore, Md. : 1950)

**CD36-mediated hematoma absorption following intracerebral hemorrhage: negative regulation by TLR4 signaling.**

"46-0369 was used in Flow cytometry/Cell sorting to study the function and potential mechanism of CD36 in hematoma absorption using in vitro and in vivo intracerebral hemorrhage models."

Authors: Fang H, Chen J, Lin S, Wang P, Wang Y, Xiong X, Yang Q

**Species**  
Mouse

**Dilution**  
1:200

**Year**  
2014

[View more Flow references on thermofisher.com](#)

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