

## Technical Data Sheet

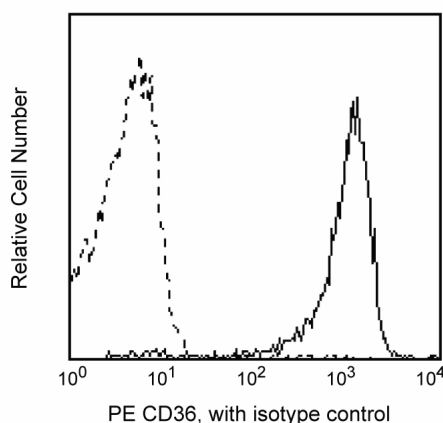
## PE Mouse Anti-Human CD36

## Product Information

Material Number:	555455
Size:	100 tests
Vol. per Test:	20 µl
Clone:	CB38
Isotype:	Mouse IgM, κ
Reactivity:	QC Testing: Human
Workshop:	IV P106
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

## Description

The CB38 monoclonal antibody specifically binds to CD36. CD36 is a 88 kDa glycoprotein IV (GPIV), the receptor for extracellular matrix proteins such as collagen and thrombospondin. CD36 is known to mediate the adhesion of *Plasmodium falciparum*. CD36 antigen is expressed on monocytes, platelets, endothelial cells, and some human tumor cell lines but not on lymphocytes and granulocytes. It is a very early marker of erythroid differentiation. CD36 antibody induces degranulation, release of ATP and serotonin, increase in  $[Ca^{2+}]_i$ , and tyrosine phosphorylation of a substrate protein of 130 kDa.



Profile of peripheral blood platelets analyzed on a FACScan (BDIS, San Jose, CA)

## Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

## Application Notes

## Application

Flow cytometry

Routinely Tested

## Suggested Companion Products

Catalog Number	Name	Size	Clone
555584	PE Mouse IgM, κ Isotype Control	100 tests	G155-228

## Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use  $1 \times 10^6$  cells in a 100-µl experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at [www.bdbiosciences.com/colors](http://www.bdbiosciences.com/colors).
5. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

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6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

## References

Alessio M, Greco NJ, Primo L, et al. Platelet activation and inhibition of malarial cytoadherence by the anti-CD36 IgM monoclonal antibody NL07. *Blood*. 1993; 82(12):3637-3647. (Biology)

Alessio M, Roggero S, Bussolino F, Saitta M, Malavasi F. Characterization of the murine monoclonal antibody NL07 specific for the human thrombospondin receptor (CD36 molecule). *Curr Stud Hematol Blood Transfus*. 1991; 58:182-186. (Biology)

Knapp W, Dorken B, Rieber EP, et al, ed. *Leucocyte Typing IV*. New York: Oxford University Press; 1989:1-1208. (Clone-specific)