

Technical Data Sheet

Purified Mouse Anti-Human CD36

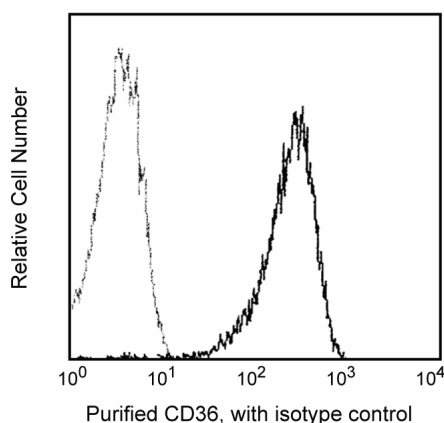
Product Information

Material Number:	555453
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	CB38
Isotype:	Mouse IgM, κ
Reactivity:	QC Testing: Human
Workshop:	IV P106
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Antibody to CD36 reacts with the 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.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



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

Preparation and Storage

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

Store undiluted at 4° C.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Gt/Ms
555581	Purified Mouse IgM Kappa Isotype Control	0.1 mg	G155-228

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
3. 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.

References

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