

Technical Data Sheet

Purified Mouse Anti-Human CD31

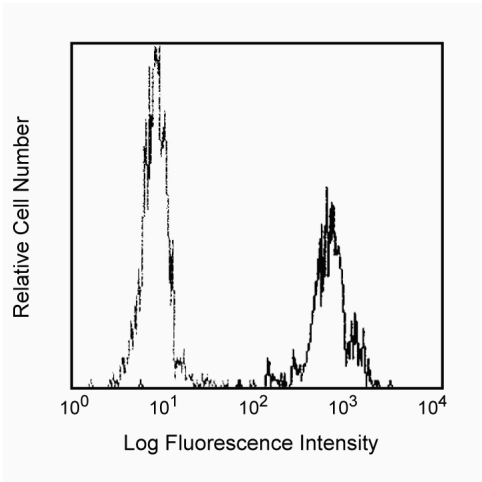
Product Information

Material Number:	555444
Alternate Name:	PECAM-1
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	WM59
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human
Workshop:	V P025
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

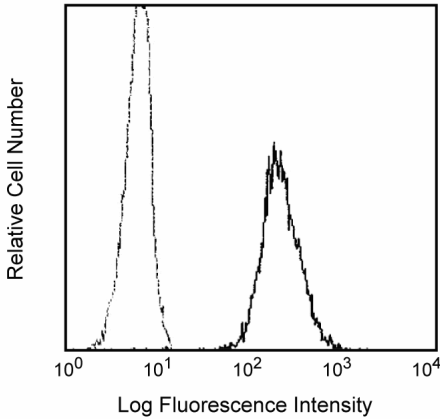
Description

Reacts with a 130 kDa glycoprotein, gpIIa', also known as platelet endothelial cell adhesion molecule-1, (PECAM-1). CD31 has wide tissue distribution and is expressed on platelets, monocytes, granulocytes, and in high amounts on endothelial cells. This molecule has been implicated in a number of cellular phenomena, including vascular wound healing and angiogenesis, and transendothelial migration of leukocytes in inflammatory responses.

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 monocytes analyzed on a FACScan (BDIS, San Jose, CA)



Profile of peripheral blood granulocytes 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.

Store undiluted at 4° C.

Application Notes

Application

Immunohistochemistry-frozen	Tested During Development
Immunohistochemistry-zinc-fixed	Tested During Development
Flow cytometry	Routinely Tested

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## Suggested Companion Products

Catalog Number	Name	Size	Clone
555746	Purified Mouse IgG1 Kappa Isotype Control	0.1 mg	MOPC-21
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Gt/Ms

## Product Notices

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

## References

DeLisser HM, Newman PJ, Albelda SM. Platelet endothelial cell adhesion molecule (CD31). *Curr Top Microbiol Immunol.* 1993; 184:37-45.(Biology)  
Engel P, Wagner N, Zhou L, et al. CD86 Workshop Report. In: Schlossman SF, Bousmell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens.* New York: Oxford University Press; 1995.(Biology)  
Muller WA, Weigl SA, Deng X, Phillips DM. PECAM-1 is required for transendothelial migration of leukocytes. *J Exp Med.* 1993; 178(2):449-460.(Biology)  
Vaporciyan AA, DeLisser HM, Yan HC, et al. Involvement of platelet-endothelial cell adhesion molecule-1 in neutrophil recruitment in vivo. *Science.* 1993; 262(5139):1580-1582.(Biology)