Technical Data Sheet

Purified Mouse Anti-Rat CD106

Product Information

Material Number:	**559165**
Alternate Name:	VCAM-1
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	MR106
Immunogen:	Rat VCAM-1-transfected L5178Y Cells
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The MR106 antibody reacts with CD106, the ~110 kDa transmembrane vascular cell adhesion molecule-1 (VCAM-1). Expression of CD106 on endothelial cells is induced by inflammatory cytokines and in certain pathologic conditions. In the rat bone marrow, CD106 has been reported to be expressed on dendritic cells and subsets of the myeloid lineage, but not detectable on peripheral leukocytes. CD106 has been reported to be a counter-receptor for VLA-4 (α4β1 integrin) and α4β7 integrin, and it plays an important role in leukocyte extravasation, particularly at sites of inflammation.

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.

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
Immunohistochemistry-frozen	Tested During Development
Immunoprecipitation	Tested During Development

Recommended Assay Procedure:

Caution: Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE™ (No Azide/Low Endotoxin) antibody format for in vitro and in vivo use.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/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

Bevilacqua MP. Endothelial-leukocyte adhesion molecules. *Annu Rev Immunol.* 1993; 11:767-804. (Biology)

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