

Technical Data Sheet

Purified Mouse Anti-Human CD106

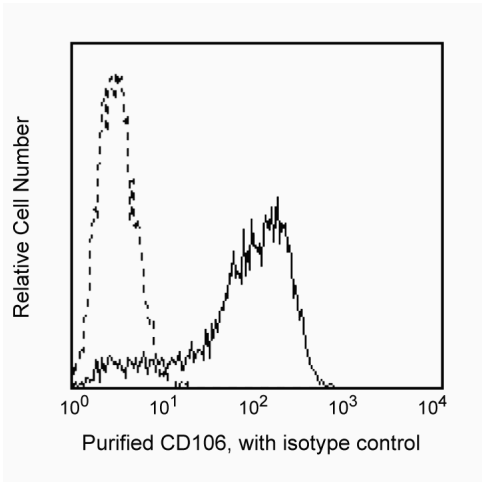
Product Information

| | |
|------------------|---|
| Material Number: | 555645 |
| Alternate Name: | VCAM-1 |
| Size: | 0.1 mg |
| Concentration: | 0.5 mg/ml |
| Clone: | 51-10C9 |
| Isotype: | Mouse IgG1, κ |
| Reactivity: | QC Testing: Human |
| Workshop: | V E112 |
| Storage Buffer: | Aqueous buffered solution containing ≤0.09% sodium azide. |

Description

Reacts with the 100-110 kDa glycoprotein vascular cell adhesion molecule-1 (VCAM-1) (also known as INCAM-110), that is expressed at high levels on the surface of cytokine-stimulated endothelium, and at minimal levels on unstimulated endothelium. VCAM-1 serves as a ligand for the leukocyte integrins α4β1 (CD49d/CD29 complex). MAb 51-10C9 inhibits the in vitro binding of lymphocytes and monocytes to VCAM-1 on stimulated endothelium.

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 |
| ELISA | Reported |
| Immunoprecipitation | Reported |
| Blocking | Reported |

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Suggested Companion Products

| Catalog Number | Name | Size | Clone |
|----------------|---|--------|------------|
| 555746 | Purified Mouse IgG1, κ Isotype Control | 0.1 mg | MOPC-21 |
| 555988 | FITC Goat Anti-Mouse IgG/IgM | 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/pharmlngen/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

Schlossman SF, Boumsell L, Gilks W, et al, ed. *Leukocyte Typing V: White Cell Differentiation Antigens*. New York: Oxford University Press; 1995.(Clone-specific)
Bevilacqua MP, Pober JS, Mendrick DL, Cotran RS, Gimbrone MA Jr. Identification of an inducible endothelial-leukocyte adhesion molecule. *Proc Natl Acad Sci U S A*. 1987; 84(24):9238-9242.(Biology)
Taichman DB, Cybulsky MI, Djaffar I, et al. Tumor cell surface alpha 4 beta 1 integrin mediates adhesion to vascular endothelium: demonstration of an interaction with the N-terminal domains of INCAM-110/VCAM-1. *Cell Regul*. 1991; 2(5):347-355.(Biology)