Technical Data Sheet

FITC Rat Anti-Mouse CD106

Product Information

 Material Number:
 553332

 Alternate Name:
 VCAM-1

 Size:
 0.5 mg

 Concentration:
 0.5 mg/ml

 Clone:
 429 (MVCAM.A)

Immunogen: Mouse preadipose cell line PA6

Isotype:Rat (LEW) IgG2a, κ Reactivity:QC Testing: Mouse

Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 429 antibody reacts with both the long (\sim 110 kDa) transmembrane-spanning form and the truncated (\sim 47 kDa) GPI-linked form of vascular cell adhesion molecule-1 (VCAM-1, CD106). CD106 is constitutively expressed on bone marrow stromal cells, myeloid cells, and splenic dendritic cells. Its expression on endothelial cells is upregulated by inflammatory cytokines and in certain pathologic conditions. CD106 expression has also been detected on apoptotic thymocytes, splenocytes, and lymphoid cell lines. VCAM-1 is a counter-receptor for VLA-4 (α 4 β 1 integrin) and LPAM-1 (α 4 β 7 integrin), and the 429 antibody partially blocks VCAM-1-mediated binding functions. Source of the immunogen was mouse preadipose cell line PA6.

Preparation and Storage

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

The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

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

Application Notes

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Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
553929	FITC Rat IgG2a, κ Isotype Control	0.25 mg	R35-95

Product Notices

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

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Kinashi T, Springer TA. Adhesion molecules in hematopoietic cells. Blood Cells. 1994; 20(1):25-44.(Biology)

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