Datasheet for ABIN135070

anti-VCAM1 antibody

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Overview

Quantity:	0.5 mg
Target:	VCAM1
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This VCAM1 antibody is un-conjugated
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	BALB/3T3 and +/+2.4 cells
Clone:	M-K-2
Isotype:	IgG1
Specificity:	Mouse CD106, Mr 100-110 kDa
Characteristics:	Rat Anti-Mouse CD106-UNLB
Purification:	Purified

Target Details

Target:	VCAM1
Alternative Name:	CD106 (VCAM1 Products)
Background:	VCAM-1 is an adhesion molecule and a major mediator of the inflammatory response. It is

Target Details

	expressed on activated microvascular endothelial cells in response to signals arising from immune responses in infection, graft rejection, tumor recognition and killing. The complementary binding ligand for VCAM-1 is VLA-4/CD49d. In addition to VCAM-1, VLA-4 also recognizes the extracellular matrix molecule fibronectin. This pairing of VCAM-1 and VLA-4 is able to provide a second signal (i.e., non-antigen specific) for T cell stimulation, such as that seen in transplantation. The monoclonal antibody MK-2 has been used in transplant studies to suppress cardiac rejection and induce long-term cardiac graft survival. In addition to inflammatory responses, VCAM-1 has a significant role in hemopoiesis through its ability to retain lymphocyte and myeloid precursors on stromal cells in the marrow and lymphoid organs. CD106/VCAM-1 exists as an integral membrane protein.
Pathways:	Carbohydrate Homeostasis

Application Details

Application Notes:	• **Applications:** FC - Quality tested , IHC-FS - Reported in literature , IP - Reported in literature , WB - Reported in literature , Adhesion - Reported in literature , Block - Reported in literature • **Working Dilutions:** Flow Cytometry FITC and BIOT conjugates 1 g/106 cells PE conjugate 0.2 g/106 cells For flow cytometry, the suggested use of these reagents is in a final volume of 100 L
Sample Volume:	1 mL
Restrictions:	For Research Use only

Handling

Concentration:	0.5 mg/mL
Buffer:	0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added
Preservative:	Without preservative
Handling Advice:	Each reagent is stable for the period shown on the bottle label if stored as directed.
Storage:	4 °C
Storage Comment:	Store at 2-8°C

Publications

Product cited in:	Wang, Cao, Gorshkov, Zhou, Yang, Xu, Ma, Zhang, Wang, Mao, Zeng, Su, Verin, Hong, Liu, Huo: "

Publications

Ablation of endothelial Pfkfb3 protects mice from acute lung injury in LPS-induced endotoxemia." in: **Pharmacological research**, Vol. 146, pp. 104292, (2020) (PubMed).

Xu, Wang, Yan, Yang, Zhou, Zeng, Liu, An, Toque, Dong, Jiang, Fulton, Weintraub, Li, Bagi, Hong, Boison, Wu, Huo: "Regulation of endothelial intracellular adenosine via adenosine kinase epigenetically modulates vascular inflammation." in: **Nature communications**, Vol. 8, Issue 1, pp. 943, (2018) (PubMed).

Siler, Berlow, Kukino, Davis, Nelson, Grafe, Ono, Cetas, Pike, Alkayed: "Soluble Epoxide Hydrolase in Hydrocephalus, Cerebral Edema, and Vascular Inflammation After Subarachnoid Hemorrhage." in: **Stroke**, Vol. 46, Issue 7, pp. 1916-22, (2015) (PubMed).

Images

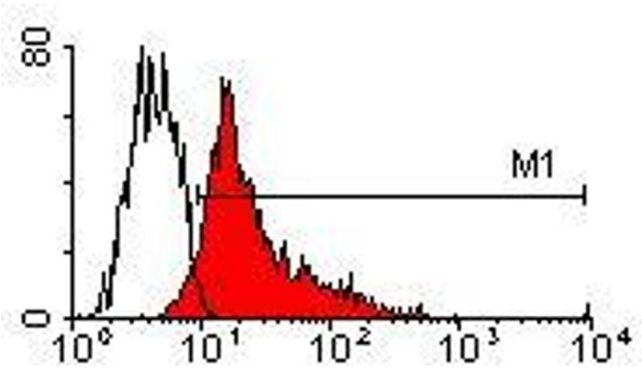

Image 1.