

Mouse Anti-VCAM1 Monoclonal Antibody

Cat. No. DMABT-H18424 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Anti-VCAM1 Monoclonal Antibody
Species	Human
Source	Mouse
Antigen Description	CD106 is a 110 kD single chain type I glycoprotein also known as VCAM-1 and INCAM-110. It is expressed predominantly on activated vascular endothelium but has also been identified on follicular and interfollicular dendritic cells, some macrophages, bone marrow stromal cells, and non-vascular cell populations within joints, kidney, muscle, heart, placenta, and brain. Expression on endothelial cells as well as many other cells is induced by inflammatory stimuli and cytokines. Activated endothelial cells can release soluble forms of CD106 which can be detected in the blood. CD106 binds the integrins CD49d/CD29 (VLA-4) and alpha 4 beta 7 that contribute to leukocyte adhesion, transmigration, and co-stimulation of T cell proliferation.
Target	VCAM1
Isotype	IgG1, kappa
species	Human
Clone	TUB
Conjugation	Biotin

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Flow Cyt
Preparation	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
Usage recommendation	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is $\leq 0.5 \mu\text{g}$ per million cells in 100 μl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Concentration	0.5 mg/ml
Storage	The antibody solution should be stored undiluted at 4 °C. Do not freeze.
Size	25 μg ; 100 μg

GENE INFORMATION

Gene Name	VCAM1 vascular cell adhesion molecule2[Homo sapiens]
Official Symbol	VCAM1
Synonyms	VCAM1; vascular cell adhesion molecule 1; vascular cell adhesion protein 1; CD106; CD106 antigen; INCAM-100; MGC99561; DKFZp779G2333;
Gene ID	7412
mRNA Refseq	NM_001078
Protein Refseq	NP_001069

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MIM	192225
UniProt ID	P19320
Chromosome Location	1p32-p31
Pathway	Adaptive Immune System, organism-specific biosystem; African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Cellular roles of Anthrax toxin, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem;
Function	cell adhesion molecule binding; cell adhesion molecule binding; integrin binding;

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