

VCAM1 monoclonal antibody, clone STA

Catalog # MAB8211 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against native VCAM1.
Immunogen	Native purified VCAM1 from human DS6 T cell line.
Host	Mouse
Theoretical MW (kDa)	100-110
Reactivity	Human
Specificity	This antibody STA recognizes VCAM1 antigen (CD106), a 100-110 KDa type I membrane protein of the immunoglobulin superfamily, a crucial mediator of leukocyte adhesion, and a costimulation molecule.
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA Flow Cytometry (4-6 ug/mL) Immunohistochemistry Immunoprecipitation The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.09% sodium azide)
Storage Instruction	Store at 4°C. Do not freeze. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry

- Immunoprecipitation
- Enzyme-linked Immunoabsorbent Assay
- Flow Cytometry

Gene Info — VCAM1

Entrez GeneID	7412
Gene Name	VCAM1
Gene Alias	CD106, DKFZp779G2333, INCAM-100, MGC99561
Gene Description	vascular cell adhesion molecule 1
Omim ID	192225
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the Ig superfamily and encodes a cell surface sialoglycoprotein expressed by cytokine-activated endothelium. This type I membrane protein mediates leukocyte-endothelial cell adhesion and signal transduction, and may play a role in the development of atherosclerosis and rheumatoid arthritis. Two alternatively spliced transcripts encoding different isoforms have been described for this gene. [provided by RefSeq]
Other Designations	CD106 antigen OTTHUMP00000012650 OTTHUMP00000012651

Publication Reference

- [Vascular cell adhesion molecule-1 \(VCAM-1\) and intercellular adhesion molecule-1 \(ICAM-1\) provide co-stimulation in positive selection along with survival of selected thymocytes.](#)
Paessens LC, Singh SK, Fernandes RJ, van Kooyk Y.
Molecular Immunology 2008 Jan; 45(1):42.
Application: IF, IHC-Fr, Mouse, Mouse thymic cortex
- [Modeling the early events of severe acute respiratory syndrome coronavirus infection in vitro.](#)
Yen YT, Liao F, Hsiao CH, Kao CL, Chen YC, Wu-Hsieh BA.
Journal of Virology 2006 Mar; 80(6):2684.
Application: IF, Human, A-549-SARS-CoV cells

- [Expression of VCAM-1 \(CD106\) by a subset of TCR gamma delta-bearing lymphocyte clones. Involvement of a metalloprotease in the specific hydrolytic release of the soluble isoform.](#)

Leca G, Mansur SE, Bensussan A.

Journal of Immunology 1995 Feb; 154(3):1069.

Application: ELISA, Flow Cyt, IP, Human, Human T cells

Pathway

- [Cell adhesion molecules \(CAMs\)](#)
- [Leukocyte transendothelial migration](#)

Disease

- [Alzheimer disease](#)
- [Anemia](#)
- [Arthritis](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Biliary Tract Neoplasms](#)
- [Birth Weight](#)
- [Brain Ischemia](#)
- [Bronchial Hyperreactivity](#)
- [Bronchiolitis](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Carotid Stenosis](#)
- [Cerebrovascular Accident](#)
- [Cerebrovascular Disorders](#)
- [Coronary Artery Disease](#)

- [Coronary Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Erythema Nodosum](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Heart Diseases](#)
- [Hematologic Diseases](#)
- [HIV Infections](#)
- [Hodgkin Disease](#)
- [Hypercholesterolemia](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Infant](#)
- [Inflammation](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Lymphedema](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)

- [Metabolic Syndrome X](#)
- [Migraine Disorders](#)
- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [Myocardial Infarction](#)
- [Neoplasms](#)
- [Obesity](#)
- [Occupational Diseases](#)
- [Osteoporosis](#)
- [Pulmonary Disease](#)
- [Respiratory Syncytial Virus Infections](#)
- [Sarcoidosis](#)
- [Stroke](#)
- [Thrombophilia](#)
- [Thrombosis](#)
- [Urinary Bladder Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)