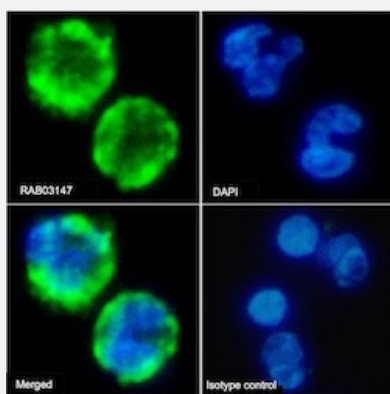


RecomAb™

VCAM1 recombinant monoclonal antibody, clone B-K9 (C106-K9)

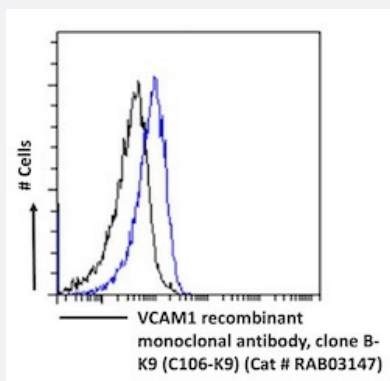
Catalog # RAB03147 Size 200 ug

Applications



Immunofluorescence

Immunofluorescent staining of human peripheral blood leukocytes with VCAM1 recombinant monoclonal antibody, clone B-K9 (C106-K9) (Cat # RAB03147). Immunofluorescence analysis of paraformaldehyde fixed human peripheral blood leukocytes on Shi-fix™ coverslips stained with the chimeric r version of RAB03147 at 10 ug/ml for 1h followed by Alexa Fluor® 488 secondary antibody (2 ug/ml)- showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right- top-bottom RAB03147- DAPI- merged channels and an isotype control. The isotype control was an unknown specificity antibody (.1) followed by staining with Alexa Fluor® 488 secondary antibody.



Flow Cytometry

Flow cytometric analysis of K562 cells with VCAM1 recombinant monoclonal antibody, clone B-K9 (C106-K9) (Cat # RAB03147). Paraformaldehyde fixed K562 cells were stained with anti-unknown specificity antibody (3.0; isotype control- black line) or the r version of RAB03147 (blue line) at a dilution of 1:100 for 1h at RT. After washing- the bound antibody was detected using a goat anti-r AlexaFluor® 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human VCAM1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against activated human umbilical vein endothelial cells.
Reactivity	Human

Form	Liquid
Isotype	IgG
Recommend Usage	Blocking Flow Cytometry Immunofluorescence The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS with 0.02% Proclin 300
Storage Instruction	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Immunofluorescence

Immunofluorescent staining of human peripheral blood leukocytes with VCAM1 recombinant monoclonal antibody, clone B-K9 (C106-K9) (Cat # RAB03147).

Immunofluorescence analysis of paraformaldehyde fixed human peripheral blood leukocytes on Shi-fix™ coverslips stained with the chimeric r version of RAB03147 at 10 ug/ml for 1h followed by Alexa Fluor® 488 secondary antibody (2 ug/ml)- showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right- top-bottom RAB03147- DAPI- merged channels and an isotype control. The isotype control was an unknown specificity antibody (.1) followed by staining with Alexa Fluor® 488 secondary antibody.

- Blocking

- Flow Cytometry

Flow cytometric analysis of K562 cells with VCAM1 recombinant monoclonal antibody, clone B-K9 (C106-K9) (Cat # RAB03147).

Paraformaldehyde fixed K562 cells were stained with anti-unknown specificity antibody (3.0; isotype control- black line) or the r version of RAB03147 (blue line) at a dilution of 1:100 for 1h at RT. After washing- the bound antibody was detected using a goat anti-r AlexaFluor® 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

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

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](#)