

## ARG23261 anti-CD106 / VCAM1 antibody [MVCAM A (429)]

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Rat Monoclonal antibody [MVCAM A (429)] recognizes CD106 / VCAM1 Rat anti Mouse CD106 antibody, clone MVCAM A (429) recognizes murine vascular adhesion molecule 1 (VCAM-1), a cell surface glycoprotein that is also known as CD106. CD106 is expressed predominantly on endothelial cells and expression is up-regulated during inflammation. The ligand for CD106 is the alpha 4 subunit (CD49d) of the integrin VLA-4 (CD49d/CD29). Rat anti Mouse CD106 antibody, clone MVCAM A (429) is reported to partially block VCAM-1 mediated functions (Kinashi and Springer 1994).
Tested Reactivity	Ms
Tested Application	FACS, IHC-Fr
Host	Rat
Clonality	Monoclonal
Clone	MVCAM A (429)
Isotype	IgG2a
Target Name	CD106 / VCAM1
Species	Mouse
Immunogen	Stromal cell line PA6.
Conjugation	Un-conjugated
Alternate Names	CD106; INCAM-100; Vascular cell adhesion protein 1; VCAM-1; CD antigen CD106; V-CAM 1

### Application Instructions

Application table	Application	Dilution
	FACS	1:100 - 1:200
	IHC-Fr	Assay-dependent
Application Note	FACS: Use 10 µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100 µl. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% Sodium azide.
Preservative	0.09% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

**Note** For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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<b>Gene Symbol</b>	VCAM1
<b>Gene Full Name</b>	vascular cell adhesion molecule 1
<b>Background</b>	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. Three alternatively spliced transcripts encoding different isoforms have been described for this gene. [provided by RefSeq, Dec 2010]
<b>Function</b>	Important in cell-cell recognition. Appears to function in leukocyte-endothelial cell adhesion. Interacts with integrin alpha-4/beta-1 (ITGA4/ITGB1) on leukocytes, and mediates both adhesion and signal transduction. The VCAM1/ITGA4/ITGB1 interaction may play a pathophysiologic role both in immune responses and in leukocyte emigration to sites of inflammation. [UniProt]
<b>Calculated Mw</b>	81 kDa
<b>PTM</b>	Sialoglycoprotein. [UniProt]