



Rat Anti-Mouse CD106 (VCAM-1) Monoclonal antibody, clone M/K-2.7 (CABT-L4369)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

The M/K-2.7 monoclonal antibody reacts with CD106 also known as VCAM-1 and INCAM-110. CD106 is a 110 kDa single chain type I glycoprotein that is expressed primarily on activated vascular endothelial cells but has also been reported 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. CD106 expression is induced by inflammatory stimuli and cytokines. CD106 binds the integrins CD49d/CD29 (VLA-4) and $\alpha 4\beta 7$ which contribute to leukocyte adhesion, transmigration, and co-stimulation of T cell proliferation.

Target	Mouse CD106 (VCAM-1)
Immunogen	Stromal cells from mouse bone marrow
Isotype	IgG1, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	M/K-2.7
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo?VCAM-1 neutralization, IF
Molecular Weight	150 kDa
Format	0.2 μ M filtered liquid. Purified from tissue culture supernatant in an animal free facility

Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	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]
Keywords	VCAM1;vascular cell adhesion molecule 1;CD106;Vcam-1;vascular cell adhesion protein 1;V-CAM 1;

GENE INFORMATION

Official Symbol	vascular cell adhesion molecule 1
Synonyms	VCAM1; vascular cell adhesion molecule 1; CD106; Vcam-1; vascular cell adhesion protein 1; V-CAM 1;
References	Kapitsinou, P. P., et al. (2014). "Endothelial HIF-2 mediates protection and recovery from ischemic kidney injury." J Clin Invest 124(6): 2396-2409. PubMed;