

## VCAM-1 Monoclonal Antibody

<b>Catalog No :</b>	YM0644
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	VCAM-1
<b>Fields :</b>	>>NF-kappa B signaling pathway;>>Cell adhesion molecules;>>TNF signaling pathway;>>Leukocyte transendothelial migration;>>AGE-RAGE signaling pathway in diabetic complications;>>African trypanosomiasis;>>Malaria;>>Lipid and atherosclerosis;>>Fluid shear stress and atherosclerosis
<b>Gene Name :</b>	VCAM1
<b>Protein Name :</b>	Vascular cell adhesion protein 1
<b>Human Gene Id :</b>	7412
<b>Human Swiss Prot No :</b>	P19320
<b>Mouse Swiss Prot No :</b>	P29533
<b>Immunogen :</b>	Purified recombinant fragment of human VCAM-1 expressed in E. Coli.
<b>Specificity :</b>	VCAM-1 Monoclonal Antibody detects endogenous levels of VCAM-1 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. ELISA: 1:10000.. IF 1:50-200
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	81kD

**Cell Pathway :** Cell adhesion molecules (CAMs);Leukocyte transendothelial migration;

**P References :** 1. Cell Adh Migr. 2009 Oct;3(4):369-72.  
2. Arthritis Rheum. 2010 Jan;62(1):105-16.

**Background :** 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],

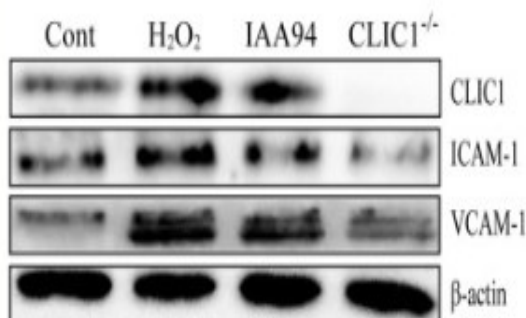
**Function :** alternative products:Additional isoforms seem to exist,disease:May play an important role in the genesis of atherosclerosis and rheumatoid arthritis.,domain:Either the first or the fourth Ig-like C2-type domain is required for VLA4-dependent cell adhesion.,function:Important in cell-cell recognition. Appears to function in leukocyte-endothelial cell adhesion. Interacts with the beta-1 integrin VLA4 on leukocytes, and mediates both adhesion and signal transduction. The VCAM1/VLA4 interaction may play a pathophysiologic role both in immune responses and in leukocyte emigration to sites of inflammation.,induction:By cytokines (e.g. IL-1, TNF-alpha).,online information:VCAM-1,online information:VCAM1 entry,PTM:Sialoglycoprotein.,similarity:Contains 7 Ig-like C2-type (immunoglobulin-like) domains.,subunit:Binds to ECMV-D capsid proteins and acts as a receptor for this virus.,tissue specificit

**Subcellular Location :** Membrane; Single-pass type I membrane protein.

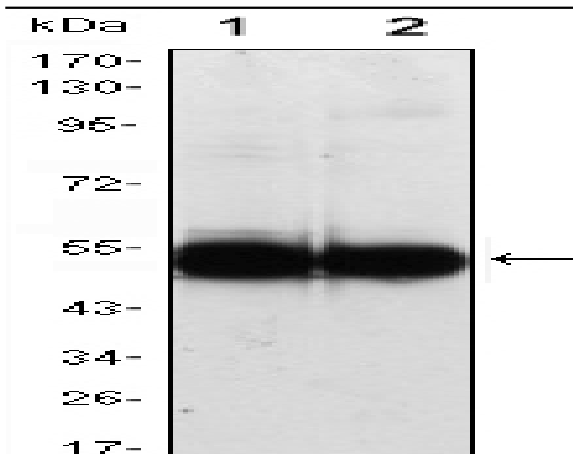
**Expression :** Expressed on inflamed vascular endothelium, as well as on macrophage-like and dendritic cell types in both normal and inflamed tissue.

## Products Images

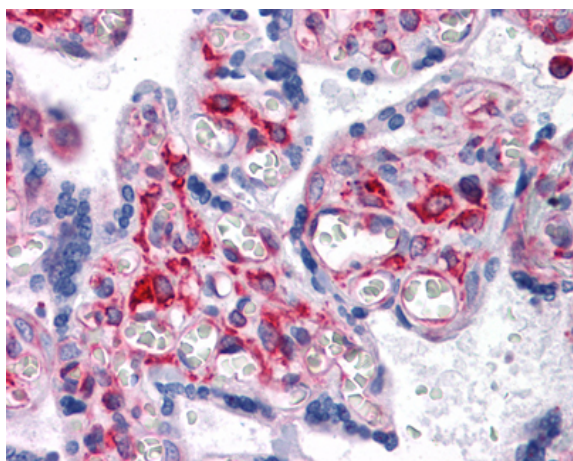
C



Xu, Yingling, et al. "CLIC1 inhibition attenuates vascular inflammation, oxidative stress, and endothelial injury." *PLoS one* 11.11 (2016): e0166790.



Western Blot analysis using VCAM-1 Monoclonal Antibody against HUVEC (1) and EC (2) cell lysate.



Immunohistochemistry analysis of paraffin-embedded human Placenta tissues with AEC staining using VCAM-1 Monoclonal Antibody.