

VCAM-1 rabbit pAb

Catalog No :	YT7839
Reactivity :	Human;Rat;Mouse;
Applications :	WB;ELISA
Target :	VCAM-1
Fields :	>>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
Gene Name :	VCAM1 L1CAM
Protein Name :	VCAM-1
Human Gene Id :	7412
Human Swiss Prot No :	P19320
Mouse Gene Id :	22329
Mouse Swiss Prot No :	P29533
Rat Gene Id :	25361
Rat Swiss Prot No :	P29534
Immunogen :	Synthesized peptide derived from human VCAM-1 AA range: 551-600
Specificity :	This antibody detects endogenous levels of Human VCAM-1
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:1000-2000 ELISA 1:5000-20000

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	81kD
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.

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