

VCAM-1 rabbit pAb

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| 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 |

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| 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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