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# VCAM1 Rabbit mAb

Catalog # AP74993

## Product Information

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|---|---|
| **Application** | WB, IHC-P, FC, IP |
| **Primary Accession** | P19320 |
| **Reactivity** | Rat, Human, Mouse |
| **Host** | Rabbit |
| **Clonality** | Monoclonal Antibody |
| **Isotype** | IgG |
| **Conjugate** | Unconjugated |
| **Purification** | Affinity Purified |
| **Calculated MW** | 81276 |

## Additional Information

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|---|---|
| **Gene ID** | 7412 |
| **Other Names** | VCAM1 |
| **Dilution** | WB~~1:1000-1:5000 IHC-P~~N/A FC~~1:20-1:50 IP~~1:20-1:50 |
| **Format** | Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA. |
| **Storage** | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |

## Protein Information

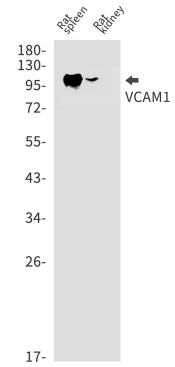
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|---|---|
| **Name** | VCAM1 |
| **Function** | Cell adhesion glycoprotein predominantly expressed on the surface of endothelial cells that plays an important role in immune surveillance and inflammation (PubMed:31310649). Acts as a major regulator of leukocyte adhesion to the endothelium through interaction with different types of integrins (PubMed:10209034). During inflammatory responses, binds ligands on the surface of activated endothelial cells to initiate the activation of calcium channels and the plasma membrane-associated small GTPase RAC1 leading to leukocyte transendothelial migration (PubMed:22970700). Also serves as a quality- control checkpoint for entry into bone marrow by providing a 'don't- eat-me' stamping in the context of major histocompatibility complex (MHC) class-I presentation (PubMed:35210567). |
| **Cellular Location** | [Vascular cell adhesion protein 1]: Cell membrane; Single-pass type I membrane protein |

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| **Tissue Location** | Expressed on inflamed vascular endothelium, as well as on macrophage-like and dendritic cell types in both normal and inflamed tissue |

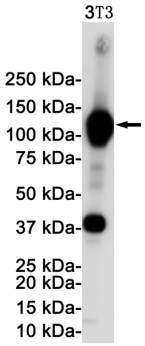
## Background

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 artherosclerosis and rheumatoid arthritis. Two alternatively spliced transcripts encoding different isoforms have been described for this gene.Tissue specificity:

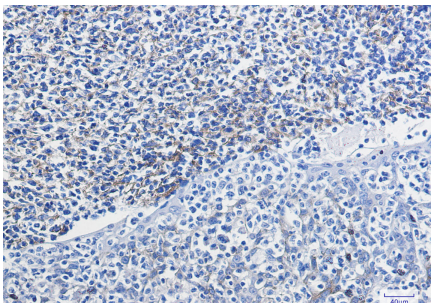
## Images



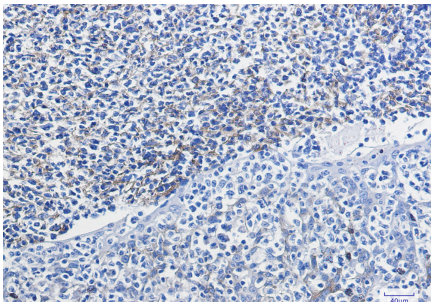

Western blot analysis of VCAM1 in rat spleen, rat kidney lysates using VCAM1 antibody.

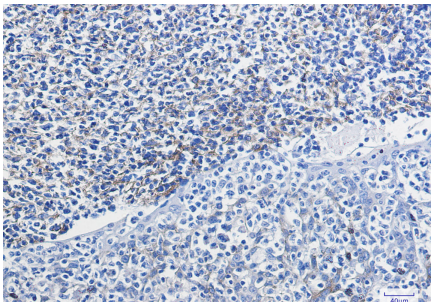



Western blot analysis of VCAM1 in 3T3 lysates using VCAM1 antibody.



Immunohistochemistry analysis of paraffin-embedded Human tonsil using VCAM1 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.





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