



Rabbit Anti-VCAM-1 antibody

SL0396R

Product Name:	VCAM-1
Chinese Name:	vascular endothelial cell粘附分子抗体
Alias:	VCAM1; CD 106; CD106; CD106 Antigen; DKFZp779G2333; INCAM 100; L1CAM; MGC99561; Vascular Cell Adhesion Molecule 1; Vascular cell adhesion protein 1; VCAM 1; VCAM-1; INCAM-100; V-CAM 1; VCAM1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/TestIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	81kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from mouse VCAM-1:701-800/739<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	VCAM1 is important in cell-cell recognition. Appears to function in leukocyte-endothelial cell adhesion. Interacts with the integrins alpha4 beta1 (beta 1 integrin VLA4) and alpha4 beta7 on leukocytes, and mediates both adhesion and signal transduction. The VCAM1/VLA4 interaction may play a pathophysiological role both in

immune responses and in leukocyte emigration to sites of inflammation. VCAM1 is also expressed by several non endothelial cell types including some macrophages, follicular dendritic cells and bone marrow, stromal cells.

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.

Subunit:

Binds to ECMV-D capsid proteins and acts as a receptor for this virus.

Subcellular Location:

Isoform 1: Cell membrane; Single-pass type I membrane protein. Isoform 2: Cell membrane; Lipid-anchor, GPI-anchor.

Tissue Specificity:

Expressed on inflamed vascular endothelium, as well as on macrophage-like and dendritic cell types in both normal and inflamed tissue. Expressed in the bone marrow.

Similarity:

Contains 7 Ig-like C2-type (immunoglobulin-like) domains.

SWISS:

P29533

Gene ID:

22329

Database links:

[Entrez Gene: 7412](#)Human

[Entrez Gene: 22329](#)Mouse

[Entrez Gene: 25361](#)Rat

[GenBank: NP_001069.1](#)Human

[GenBank: NP_001186763.1](#)Human

[Olim: 192225](#)Human

[SwissProt: P19320](#)Human

[SwissProt: P29533](#)Mouse

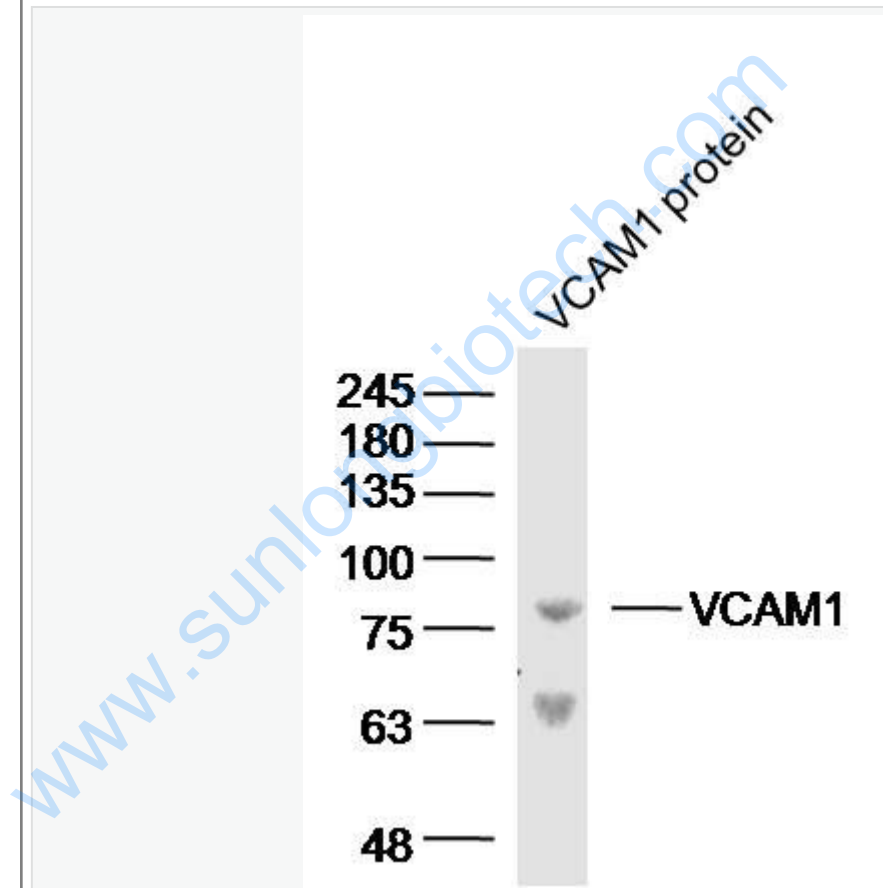
Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

VCAM

1 (CD106) 是一种膜相关蛋白, 分布于血管内皮及其周围的lymphocyte、单核细胞、嗜酸性粒细胞和中性粒细胞。Anti-VCAM-1主要用于各种组织中血管内皮的检测。

Picture:



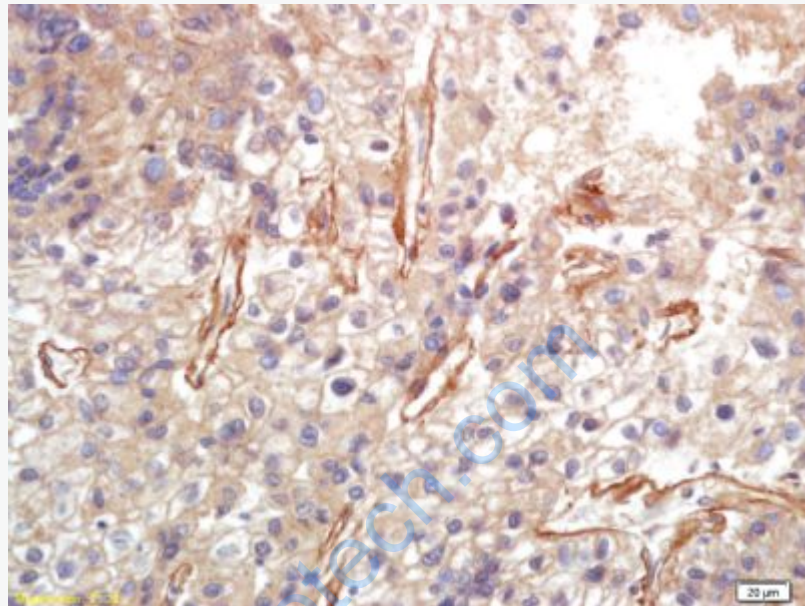
Sample: VCAM1 protein (Human) at 100 ng

Primary: Anti-VCAM-1 (SL0396R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 81 kD

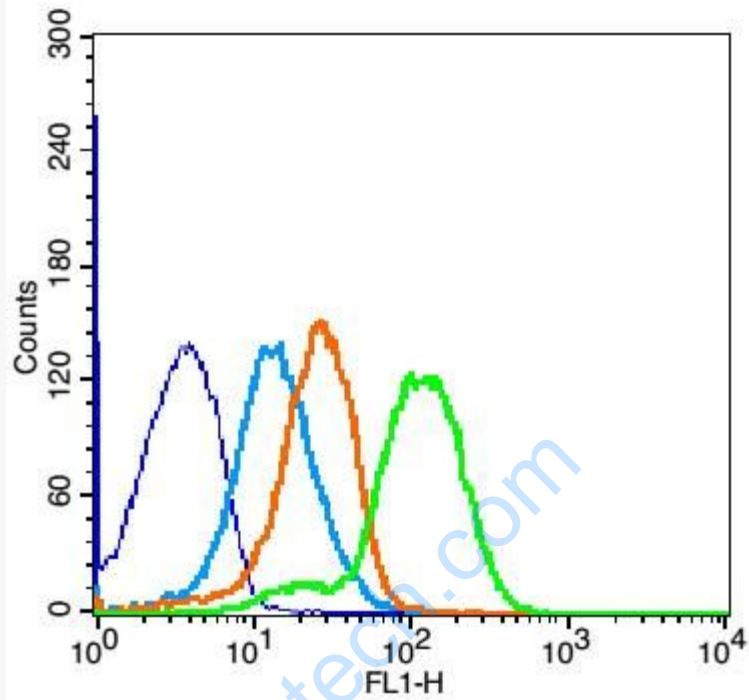
Observed band size: 81 kD



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-VCAM-1 Polyclonal Antibody, Unconjugated(SL0396R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: Mouse Spleen(blue).

Primary Antibody:Rabbit Anti-VCAM-1 antibody (SL0396R); Dilution: 1 μ g in 100 μ L 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions;

Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

Protocol

The cells were fixed with 2% paraformaldehyde for 10 min at 37°C. Primary antibody (SL0396R) were incubated for 30 min at room temperature, followed by 1 X PBS containing 0.5% BSA + 1 0% goat serum (1 hour) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/FITC antibody was added into the blocking buffer mentioned above to react with the primary antibody at 1/200 dilution for 40 min at room temperature. Acquisition of 20,000 events was

	performed.
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