



20180406BB

Anti-Mouse VCAM-1 (#MAB0804)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

Cat.-no.:	103-M98
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat immunized with cytokine stimulated mouse endothelial cells). The IgG1 fraction of culture supernatant was purified by Protein A/G affinity chromatography and lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS).

Target Background

Synonyms (Target):	CD106; Vascular Cell Adhesion Protein 1; V-CAM 1;
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The antibody reacts with mouse CD106 (Vascular Cell Adhesion Molecule-1, VCAM-1), a 110 kDa transmembrane glycoprotein expressed by myeloid lineage and bone marrow stromal cells. Endothelial cells constitutively express low levels of CD106 and upregulate it upon cytokine stimulation. CD106 binds to integrin alpha4beta1 (VLA-4, CD49d/CD29) and Integrin a4b7 (LPAM-1) and these interactions in the bone marrow and thymus are important for early lymphocyte and myeloid development. Cytokine-mediated upregulation of CD106 on endothelial cells suggests a role for this antigen in the inflammatory response.

Database References Target

Protein RefSeq:	NP_035823.3
Uniprot ID:	P29533
mRNA RefSeq:	NM_011693.3

Product Specifications

Host	Rat
Reactivity against	Mouse
Clonality	Monoclonal Antibody
Clone	(#MAB0804)
Isotype	IgG1
Purification	Protein A/G chromatography
Antigen	Cytokine stimulated mouse endothelial cells
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70 °C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody was selected for its ability to detect mouse VCAM-1.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:
WB, IHC (P), IP

Recommended usage:

Western blotting: 1:100 - 1:1000

IP: Yes

IHC (Paraffin): 1:25 - 1:100

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!



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Application/Handling

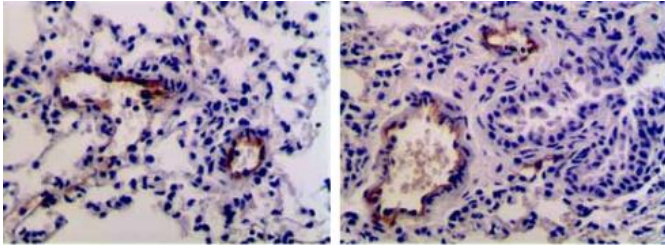


Fig. 1: 4% PFA fixed and paraffin embedded mouse lung tissue section was subjected to IHC staining of mouse VCAM-1 (CD106) using 103-M98.