

VCAM1 Antibody (RQ4185)

Catalog No.	Formulation	Size
RQ4185	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P19320
Applications	Western Blot : 0.5-1ug/ml ELISA (Capture) : 0.1-0.5ug/ml (BSA-free format available)
Limitations	This VCAM1 antibody is available for research use only.

kDa
180-
130-
95-
72-
55-
43-
34-
26-
17-

Western blot testing of 1ng of human recombinant protein with VCAM1 antibody at 0.5ug/ml. Expected molecular weight: 74-110 kDa depending on glycosylation level.

Description

CD106 (cluster of differentiation 106) also known as vascular cell adhesion molecule 1 (VCAM-1), is a protein that in humans is encoded by the VCAM1 gene. In inflammatory conditions and in cardiac allografts undergoing rejection, VCAM1 is upregulated in endothelium of postcapillary venules. Arterial expression of VCAM1 is also found in experimental models of atherosclerosis in the rabbit. This gene is mapped to chromosome 1 by Southern analysis of somatic cell hybrids. VCAM-1 functions as a cell adhesion molecule. The VCAM-1 protein mediates the adhesion of lymphocytes, monocytes, eosinophils, and basophils to vascular endothelium. It also functions in leukocyte-endothelial cell signal transduction, and it may play a role in the development of atherosclerosis and rheumatoid arthritis. CAM741 works

similar to cotransin in that it represses the biosynthesis of VCAM1 cells by blocking the process of cotranslational translocation, which is dependent on the signal peptide of VCAM1. Among the lung metastasis signature genes identified, several, including VCAM1, were functionally validated.

Application Notes

Optimal dilution of the VCAM1 antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids F25-L270 was used as the immunogen for the VCAM1 antibody.

Storage

After reconstitution, the VCAM1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.