



# Mouse Anti-Human VCAM1 monoclonal antibody, clone NN22 (CABT-ZB590)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

|                           |  |
|---------------------------|--|
| <b>Specificity</b>        | It reacts with Human VCAM1   |
| <b>Target</b>             | VCAM1  |
| <b>Immunogen</b>          | Recombinant Human VCAM1/VCAM-1/CD106 Protein   |
| <b>Isotype</b>            | IgG  |
| <b>Source/Host</b>        | Mouse  |
| <b>Species Reactivity</b> | Human  |
| <b>Clone</b>              | NN22   |
| <b>Purification</b>       | Protein A purified   |
| <b>Conjugate</b>          | Unconjugated   |
| <b>Applications</b>       | ELISA(cap)<br>We recommend the following for sandwich ELISA (Capture - Detection):<br>CABT-ZB590 - CABT-ZB942<br>This antibody will detect VCAM1 in antibody pair set. [ABPR-ZB167]  |
| <b>Preparation</b>        | This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human VCAM1/VCAM-1/CD106. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography. |
| <b>Format</b>             | Purified, Liquid   |
| <b>Concentration</b>      | Lot specific   |

|                     |  |
|---------------------|--|
| <b>Size</b>         | 50 $\mu$ L, 100 $\mu$ L, 200 $\mu$ L, 1 mL   |
| <b>Buffer</b>       | PBS  |
| <b>Preservative</b> | None   |
| <b>Storage</b>      | This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles. |
| <b>Ship</b>         | Wet ice  |

## BACKGROUND

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|---------------------|--|
| <b>Introduction</b> | Vascular cell adhesion molecule 1 (VCAM-1), also known as CD106, is a cell surface sialoglycoprotein belonging to the immunoglobulin superfamily. Two forms of VCAM-1 with either six or seven extracellular Ig-like domains are generated by alternative splicing, with the longer form predominant. VCAM-1 is an endothelial ligand for very late antigen-4 (VLA-4) and $\alpha 4\beta 7$ integrin expressed on leukocytes, and thus mediates leukocyte-endothelial cell adhesion and signal transduction. VCAM-1 expression is induced on endothelial cells during inflammatory bowel disease, atherosclerosis, allograft rejection, infection, and asthmatic responses. During these responses, VCAM-1 forms a scaffold for leukocyte migration. VCAM-1 also activates signals within endothelial cells resulting in the opening of an "endothelial cell gate" through which leukocytes migrate. VCAM-1 has been identified as a potential anti-inflammatory therapeutic target, the hypothesis being that reduced expression of VCAM-1 will slow the development of atherosclerosis. In addition, VCAM-1-activated signals in endothelial cells are regulated by cytokines indicating that it is important to consider both endothelial cell adhesion molecule expression and function during inflammatory processes. |
| <b>Keywords</b>     | VCAM1; vascular cell adhesion molecule 1; CD106; INCAM-100   |

## GENE INFORMATION

|                       |   |
|-----------------------|---|
| <b>Synonyms</b>       | VCAM1; vascular cell adhesion molecule 1; CD106; INCAM-100; vascular cell adhesion protein 1; CD106 antigen |
| <b>Entrez Gene ID</b> | <a href="#">7412</a>  |
| <b>UniProt ID</b>     | <a href="#">P19320</a>  |