abcam

## Product datasheet

# Anti-VCAM1 antibody [STA] (Phycoerythrin) ab33228

1 References  1 Image

### Overview

| | |
|---|---|
| **Product name** | Anti-VCAM1 antibody [STA] (Phycoerythrin) |
| **Description** | Mouse monoclonal [STA] to VCAM1 (Phycoerythrin) |
| **Host species** | Mouse |
| **Conjugation** | Phycoerythrin. Ex: 488nm, Em: 575nm |
| **Specificity** | Recognizes CD106, a 110kD cell surface protein predominantly expressed on activated vascular endothelium. |
| **Tested applications** | **Suitable for:** Flow Cyt |
| **Species reactivity** | **Reacts with:** Human |
| **Immunogen** | Cells of the DS6 T-cell line (Human) |
| **Positive control** | KM-H2 cells |

### Properties

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|---|---|
| **Form** | Liquid |
| **Storage instructions** | Store at +4°C. |
| **Storage buffer** | Preservative: 0.09% Sodium Azide<br>Constituents: 1% BSA, PBS, pH 7.4 |
| **Purity** | Protein G purified |
| **Purification notes** | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |
| **Clonality** | Monoclonal |
| **Clone number** | STA |
| **Myeloma** | NS1 |
| **Isotype** | IgG1 |

### Applications

Our Abpromise guarantee covers the use of **ab33228** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| Flow Cyt | | 1/5. Use 10µl of the suggested working dilution to label $10^6$ cells in 100µl. |

## Target

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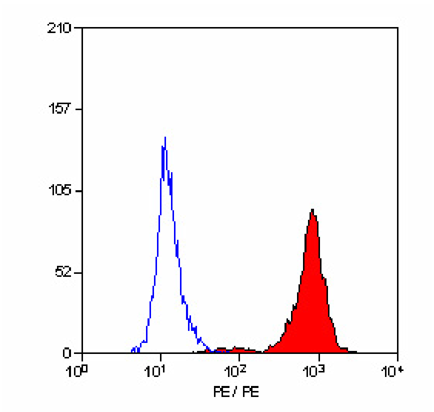
|---|---|
| **Function** | Important in cell-cell recognition. Appears to function in leukocyte-endothelial cell adhesion. Interacts with the beta-1 integrin VLA4 on leukocytes, and mediates both adhesion and signal transduction. The VCAM1/VLA4 interaction may play a pathophysiologic role both in immune responses and in leukocyte emigration to sites of inflammation. |
| **Tissue specificity** | Expressed on inflammed vascular endothelium, as well as on macrophage-like and dendritic cell types in both normal and inflammed tissue. |
| **Sequence similarities** | Contains 7 Ig-like C2-type (immunoglobulin-like) domains. |
| **Domain** | Either the first or the fourth Ig-like C2-type domain is required for VLA4-dependent cell adhesion. |
| **Post-translational modifications** | Sialoglycoprotein. |
| **Cellular localization** | Membrane. |

## Images




Flow Cytometry - Anti-VCAM1 antibody [STA] (Phycoerythrin) (ab33228)

Staining of KM-H2 cells with RPE-conjugated anti-VCAM1 (ab33228).



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