

Datasheet: MCA4633PET

| Description:       | MOUSE ANTI RAT CD106:RPE               |  |  |
|--------------------|--|--|--|
| Specificity:       | CD106                                  |  |  |
| Other names:       | VCAM-1                                 |  |  |
| Format:            | RPE                                    |  |  |
| Product Type:      | Monoclonal Antibody                    |  |  |
| <del>* •</del>     | ······································ |  |  |
| Clone:             | MR106                                  |  |  |
| Clone:<br>Isotype: | ,                                      |  |  |

## **Product Details**

## **Applications**

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <a href="https://www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

|                | Yes | No | Not Determined | Suggested Dilution |
|----------------|-----|----|----------------|--------------------|
| Flow Cytometry | -   |    |                |                    |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

| Rat                                      |   |  |
|--|---|--|
| Purified IgG conjuga                     | ited to R. Phycoerythrin  | (RPE) - lyophilized  |
| Reconstitute with 0.2                    | 25ml distilled water  |  |
| Fluorophore                              | Excitation Max (nm)   | Emission Max (nm)  |
| RPE 488nm laser                          | 496   | 578  |
| Purified IgG prepare                     | d by affinity chromatog   | raphy on Protein G   |
| Phosphate buffered                       | saline  |  |
|  |   |  |
| 0.09% Sodium Azide                       | ∍ (NaN₃)  |  |
| 0.09% Sodium Azide<br>1% Bovine Serum Al | ` ",  |  |
|  | ` ",  |  |
|  | Purified IgG conjuga  Reconstitute with 0.2  Fluorophore  RPE 488nm laser  Purified IgG prepare | Purified IgG conjugated to R. Phycoerythrin  Reconstitute with 0.25ml distilled water  Fluorophore Excitation Max (nm) |

### External Database

Links

**UniProt**:

P29534 Related reagents

#### **Entrez Gene:**

25361 Vcam1 Related reagents

| Synonyms          | Vcam-1   |
|-------------------|--|
| Specificity       | Mouse anti Rat CD106 antibody, clone MR106 recognizes rat CD106, otherwise known as VCAM-1 (vascular adhesion molecule 1), a 110kDa inducible type I transmembrane glycoprotein and member of the immunoglobulin supergene family, which is predominantly expressed on vascular endothelium, and also on bone marrow stromal cells, follicular dendritic cells and some macrophages.   |
|                   | CD106 interacts with the lymphocyte homing receptor VLA-4 (alpha4 beta1 integrin) and LPAM-1 (alpha4 beta7 integrin) and mediates leucocyte-endothelial cell adhesion and signal transduction. Expression of CD106 is upregulated following cytokine activation, and endothelial CD106 plays a role in the extravasation of leucocytes from blood vessels during inflammation.   |
| Flow Cytometry    | Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.  |
| References        | <ol> <li>Miyao, N. <i>et al.</i> (2006) Various adhesion molecules impair microvascular leukocyte kinetics in ventilator-induced lung injury. <u>Am J Physiol Lung Cell Mol Physiol. 290 (6): L1059-68.</u></li> <li>Kubota, H. <i>et al.</i> (2007) Identification and characterization of vitamin A-storing cells in fetal liver implications for functional importance of hepatic stellate cells in liver development and hematopoiesis. <u>Stem Cells. 25 (9): 2339-49.</u></li> </ol> |
| Further Reading   | 1. Bevilacqua, M.P. (1993) Endothelial-leukocyte adhesion molecules. <u>Annu Rev Immunol. 11:</u> 767-804.   |
| Storage           | Prior to reconstitution store at +4°C.  After reconstitution store at +4°C.  DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.   |
| Shelf Life        | 12 months from date of reconstitution.   |
| Health And Safety | Material Safety Datasheet documentation #10075 available at: 10075: https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf  |
| Information       | 10070. https://www.bio-rad-antibodics.com/apioaas/wobo/10070.par   |

## **Related Products**

# **Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA1209PE)

North & South Tel: +1 800 265 7376

Worldwide

Tel: +44 (0)1865 852 700 Europe

Tel: +49 (0) 89 8090 95 21

America Fax: +1 919 878 3751

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