

## Datasheet: MCA2388SBV610

**BATCH NUMBER 100008144**

|                      |                                           |
|----------------------|-------------------------------------------|
| <b>Description:</b>  | RAT ANTI MOUSE CD31:StarBright Violet 610 |
| <b>Specificity:</b>  | CD31                                      |
| <b>Other names:</b>  | PECAM-1                                   |
| <b>Format:</b>       | StarBright Violet 610                     |
| <b>Product Type:</b> | Monoclonal Antibody                       |
| <b>Clone:</b>        | ER-MP12                                   |
| <b>Isotype:</b>      | IgG2a                                     |
| <b>Quantity:</b>     | 100 TESTS/0.5ml                           |

### 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 [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

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

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.

| <b>Target Species</b>           | Mouse                                                                                                                                                                                                                     |                   |                     |                   |                       |     |     |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------|-------------------|-----------------------|-----|-----|
| <b>Product Form</b>             | Purified IgG conjugated to StarBright Violet 610 - liquid                                                                                                                                                                 |                   |                     |                   |                       |     |     |
| <b>Max Ex/Em</b>                | <table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>StarBright Violet 610</td> <td>403</td> <td>607</td> </tr> </tbody> </table> | Fluorophore       | Excitation Max (nm) | Emission Max (nm) | StarBright Violet 610 | 403 | 607 |
| Fluorophore                     | Excitation Max (nm)                                                                                                                                                                                                       | Emission Max (nm) |                     |                   |                       |     |     |
| StarBright Violet 610           | 403                                                                                                                                                                                                                       | 607               |                     |                   |                       |     |     |
| <b>Preparation</b>              | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant                                                                                                                             |                   |                     |                   |                       |     |     |
| <b>Buffer Solution</b>          | Phosphate buffered saline                                                                                                                                                                                                 |                   |                     |                   |                       |     |     |
| <b>Preservative Stabilisers</b> | 0.09% Sodium Azide (NaN <sub>3</sub> )<br>1% Bovine Serum Albumin<br>0.1% Pluronic F68<br>0.1% PEG 3350                                                                                                                   |                   |                     |                   |                       |     |     |

0.05% Tween 20

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**Immunogen** BALB/c macrophage precursor cell hybrids

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**External Database Links**

**UniProt:**

[Q08481](#)    [Related reagents](#)

**Entrez Gene:**

[18613](#) Pecam1    [Related reagents](#)

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**Synonyms** Pecam, Pecam-1

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**Fusion Partners** Cells from immunised rats were fused with the cells of the rat Y3-Ag1.2.3 myeloma cell line

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**Specificity** **Rat anti Mouse CD31 antibody, clone ER-MP12** recognizes mouse CD31, a 140 kDa cell surface glycoprotein expressed at high levels on endothelial cells, platelets and most leukocyte subpopulations.

CD31 is also expressed on a major population of macrophage / dendritic cell precursors in the bone marrow. Rat anti Mouse CD31 antibody, clone ER-MP12 can be used in conjunction with clone ER-MP20 ([MCA2389GA](#)) in two colour flow cytometric analysis, to identify different stages of myeloid progenitor cells in mouse bone marrow ([de Bruijn \*et al.\* 1998](#)).

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**Flow Cytometry** Use 5µl of the suggested working dilution to label 10<sup>6</sup> cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

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**References**

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|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                       | Store at +4°C. DO NOT FREEZE.<br>This product should be stored undiluted.                                                                                                            |
| <b>Guarantee</b>                     | 12 months from date of despatch                                                                                                                                                      |
| <b>Acknowledgements</b>              | This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts                                                                                      |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #20471 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2388SBV610">https://www.bio-rad-antibodies.com/SDS/MCA2388SBV610</a> |
| <b>Regulatory</b>                    | For research purposes only                                                                                                                                                           |

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## Related Products

### Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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