

## Datasheet: MCA2388SBV710

|                      |                                           |
|----------------------|-------------------------------------------|
| <b>Description:</b>  | RAT ANTI MOUSE CD31:StarBright Violet 710 |
| <b>Specificity:</b>  | CD31                                      |
| <b>Other names:</b>  | PECAM-1                                   |
| <b>Format:</b>       | StarBright Violet 710                     |
| <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 (1) | ■   |    |                | 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.

**(1) Staining at lower temperatures generally requires longer incubation to reach antibody binding equilibrium, and this effect is more pronounced for StarBright Dyes due to their larger size. For optimum staining, Bio-Rad recommends incubating samples either overnight at 4°C or 1 hour at room temperature.**

|                 |                                                                                               |                     |                   |
|-----------------|-----------------------------------------------------------------------------------------------|---------------------|-------------------|
| Target Species  | Mouse                                                                                         |                     |                   |
| Product Form    | Purified IgG conjugated to StarBright Violet 710 - liquid                                     |                     |                   |
| Max Ex/Em       | Fluorophore                                                                                   | Excitation Max (nm) | Emission Max (nm) |
|                 | StarBright Violet 710                                                                         | 402                 | 713               |
| Preparation     | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |                     |                   |
| Buffer Solution | Phosphate buffered saline                                                                     |                     |                   |
| Preservative    | 0.09% Sodium Azide (NaN <sub>3</sub> )                                                        |                     |                   |

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stabilisers</b>                    | 1% Bovine Serum Albumin<br>0.1% Pluronic F68<br>0.1% PEG 3350<br>0.05% Tween 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Approx. Protein Concentrations</b> | For information on the concentration of our StarBright Dye conjugated reagents please visit our <a href="#">FAQ</a> page.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Immunogen</b>                      | BALB/c macrophage precursor cell hybrids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>External Database Links</b>        | <p><b>UniProt:</b><br/> <a href="#">Q08481</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">18613</a>   Pecam1   <a href="#">Related reagents</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>                       | Pecam, Pecam-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Fusion Partners</b>                | Cells from immunised rats were fused with the cells of the rat Y3-Ag1.2.3 myeloma cell line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Specificity</b>                    | <p><b>Rat anti Mouse CD31 antibody, clone ER-MP12</b> recognizes mouse CD31, a 140 kDa cell surface glycoprotein expressed at high levels on endothelial cells, platelets and most leukocyte subpopulations.</p> <p>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 (<a href="#">MCA2389GA</a>) in two colour flow cytometric analysis, to identify different stages of myeloid progenitor cells in mouse bone marrow (<a href="#">de Bruijn et al. 1998</a>).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Flow Cytometry</b>                 | Use 5µl of the suggested working dilution to label 0.5x10 <sup>6</sup> cells in 100µl. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                       | This product is shipped at ambient temperature.<br>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/MCA2388SBV710">https://www.bio-rad-antibodies.com/SDS/MCA2388SBV710</a> |
| <b>Regulatory</b>                    | For research purposes only                                                                                                                                                           |

## Related Products

### Recommended Useful Reagents

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

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

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