

## Datasheet: MCA620PE

|                      |                           |
|----------------------|---------------------------|
| <b>Description:</b>  | MOUSE ANTI RAT CD172a:RPE |
| <b>Specificity:</b>  | CD172a                    |
| <b>Other names:</b>  | SIRP ALPHA                |
| <b>Format:</b>       | RPE                       |
| <b>Product Type:</b> | Monoclonal Antibody       |
| <b>Clone:</b>        | ED9                       |
| <b>Isotype:</b>      | IgG1                      |
| <b>Quantity:</b>     | 100 TESTS                 |

## 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 - 1/5         |

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

|                         |                                                                                               |                      |                   |
|-------------------------|-----------------------------------------------------------------------------------------------|----------------------|-------------------|
| Target Species          | Rat                                                                                           |                      |                   |
| Product Form            | Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized                               |                      |                   |
| Reconstitution          | Reconstitute with 1 ml distilled water                                                        |                      |                   |
| Max Ex/Em               | Fluorophore                                                                                   | Excitation Max (nm)  | Emission Max (nm) |
|                         | RPE 488nm laser                                                                               | 496                  | 578               |
| Preparation             | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant |                      |                   |
| Buffer Solution         | Phosphate buffered saline                                                                     |                      |                   |
| Preservative            | 0.09% Sodium Azide                                                                            |                      |                   |
| Stabilisers             | 1%                                                                                            | Bovine Serum Albumin |                   |
|                         | 5%                                                                                            | Sucrose              |                   |
| Immunogen               | Spleen cell homogenate.                                                                       |                      |                   |
| External Database Links | UniProt:<br><a href="#">P97710</a> <a href="#">Related reagents</a>                           |                      |                   |

**Entrez Gene:**[25528](#) Sirpa [Related reagents](#)

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>                      | Bit, Mfr, Ptpns1, Shps1, Sirp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Fusion Partners</b>               | Spleen cells from immunised mice were fused with cells of the Sp2/0 Ag-14 myeloma cell line.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Specificity</b>                   | <b>Mouse anti Rat CD172a antibody, clone ED9</b> recognizes rat Tyrosine-protein phosphatase non-receptor type substrate 1, also known as CD172a, Signal-regulatory protein alpha-1, SIRP&alpha, -1, SHP substrate 1, Macrophage membrane protein MFP150 or Macrophage fusion receptor. CD172a is a 509 amino acid ~56 kDa single pass type 1 transmembrane glycoprotein expressed selectively by myeloid cells and by neurons ( <a href="#">UniProt: P97710</a> ). Mouse anti Rat CD172a antibody, clone ED9 has been reported to bind to an alternative epitope to another anti CD172 antibody, clone OX-41 ( <a href="#">Adams et al. 1998</a> ) and has been reported to block the interaction of CD172a - CD47 ( <a href="#">de Vries et al. 2002</a> ).                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Flow Cytometry</b>                | Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>References</b>                    | <ol style="list-style-type: none"><li>1. Damoiseaux, J.G. <i>et al.</i> (1989) Rat bone marrow and monocyte cultures: influence of culture time and lymphokines on the expression of macrophage differentiation antigens. <a href="#">J Leukoc Biol. 46 (3): 246-53.</a></li><li>2. Damoiseaux, J.G. <i>et al.</i> (1989) Heterogeneity of macrophages in the rat evidenced by variability in determinants: two new anti-rat macrophage antibodies against a heterodimer of 160 and 95 kd (CD11/CD18). <a href="#">J Leukoc Biol. 46 (6): 556-64.</a></li><li>3. Adams, S. <i>et al.</i> (1998) Signal-regulatory protein is selectively expressed by myeloid and neuronal cells. <a href="#">J Immunol. 161 (4): 1853-9.</a></li><li>4. DeVries, H.E. <i>et al.</i> (2002) Signal-regulatory protein alpha-CD47 interactions are required for the transmigration of monocytes across cerebral endothelium. <a href="#">J Immunol. 168 (11): 5832-9.</a></li><li>5. Bode, U. <i>et al.</i> (2008) Dendritic cell subsets in lymph nodes are characterized by the specific draining area and influence the phenotype and fate of primed T cells. <a href="#">Immunology. 123 (4): 480-90.</a></li></ol> |
| <b>Storage</b>                       | <p>Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.</p> <p>DO NOT FREEZE.</p> <p>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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Shelf Life</b>                    | 12 months from date of reconstitution.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10075 available at: 10075: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Regulatory</b>                    | For research purposes only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA1209PE\)](#)

'M312553:180219'

|                                  |                                                                                                                                         |                  |                                                                                                                                                 |               |                                                                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|

**Printed on 01 Aug 2018**

---

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)