

## Datasheet: MCA2682PE

|                      |                          |
|----------------------|--------------------------|
| <b>Description:</b>  | RAT ANTI MOUSE ABCA2:RPE |
| <b>Specificity:</b>  | ABCA2                    |
| <b>Other names:</b>  | ATP BINDING CASSETTE 2   |
| <b>Format:</b>       | RPE                      |
| <b>Product Type:</b> | Monoclonal Antibody      |
| <b>Clone:</b>        | 9A2-51.3                 |
| <b>Isotype:</b>      | IgG2a                    |
| <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 (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)Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.**

| <b>Target Species</b>  | Mouse   |                   |                     |                   |                 |     |     |
|------------------------|---|-------------------|---------------------|-------------------|-----------------|-----|-----|
| <b>Product Form</b>    | Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized   |                   |                     |                   |                 |     |     |
| <b>Reconstitution</b>  | Reconstitute with 1ml distilled water   |                   |                     |                   |                 |     |     |
| <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>RPE 488nm laser</td> <td>496</td> <td>578</td> </tr> </tbody> </table> | Fluorophore       | Excitation Max (nm) | Emission Max (nm) | RPE 488nm laser | 496 | 578 |
| Fluorophore            | Excitation Max (nm)   | Emission Max (nm) |                     |                   |                 |     |     |
| RPE 488nm laser        | 496   | 578               |                     |                   |                 |     |     |
| <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</b>    | 0.09% Sodium Azide (NaN <sub>3</sub> )  |                   |                     |                   |                 |     |     |

|                                      |  |
|--------------------------------------|--|
| <b>Stabilisers</b>                   | 1% Bovine Serum Albumin<br>5% Sucrose  |
| <b>Immunogen</b>                     | ABCA2 transfected HeLa cells.  |
| <b>External Database Links</b>       | <p><b>UniProt:</b><br/> <a href="#">P41234</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">11305</a> Abca2    <a href="#">Related reagents</a></p>   |
| <b>Synonyms</b>                      | Abc2   |
| <b>RRID</b>                          | AB_2288941   |
| <b>Specificity</b>                   | <p><b>Rat anti Mouse ABCA2 antibody, clone 9A2-51.3</b> recognizes murine adenosine triphosphate (ATP) binding cassette transporter 2 (ABCA2). ATP-binding cassette (ABC) transporters are a large family of conserved proteins that translocate molecules across cellular membranes.</p> <p>ABCA2 is a ~250 kDa member of the ABC-A sub-family, which is predominantly expressed in the central nervous system, ovary and macrophages. The ABCA2 molecule shares homology with ABCA1 and ABCA7 and plays an important role in lipid metabolism. ABCA2 has been associated with Alzheimer's disease, and studies suggest that ABCA2 could also be involved in drug transport and resistance of tumors to chemotherapy.</p> |
| <b>Flow Cytometry</b>                | Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.  |
| <b>Storage</b>                       | <p>Store at +4°C. 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>Guarantee</b>                     | 12 months from date of reconstitution.   |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10075 available at:<br>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

[RAT IgG2a NEGATIVE CONTROL:RPE \(MCA1212PE\)](#)

### Recommended Useful Reagents

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

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

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