

## Datasheet: MCA2473PE

|                      |                           |
|----------------------|---------------------------|
| <b>Description:</b>  | MOUSE ANTI MOUSE CD28:RPE |
| <b>Specificity:</b>  | CD28                      |
| <b>Format:</b>       | RPE                       |
| <b>Product Type:</b> | Monoclonal Antibody       |
| <b>Clone:</b>        | E18                       |
| <b>Isotype:</b>      | IgG2b                     |
| <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 - 1/10        |

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           | Mouse                                                                              |                     |                   |
| Product Form             | Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized                    |                     |                   |
| Reconstitution           | Reconstitute with 1ml 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 G from                 |                     |                   |
| Buffer Solution          | Phosphate buffered saline                                                          |                     |                   |
| Preservative Stabilisers | 5% Sucrose                                                                         |                     |                   |
| Immunogen                | Alternate immunisation with A20 cells expressing mCD28 and reco                    |                     |                   |
| External Database Links  | <b>UniProt:</b><br><a href="#">P31041</a> <a href="#">Related reagents</a>         |                     |                   |
|                          | <b>Entrez Gene:</b><br><a href="#">12487</a> Cd28 <a href="#">Related reagents</a> |                     |                   |

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Fusion Partners</b>               | Spleen cells from immunised CD28 <sup>-/-</sup> -knockout mice were fused with cells of the X63Ag8.653 myeloma cell line.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Specificity</b>                   | <b>Mouse anti Mouse CD28 antibody, clone E18</b> recognizes murine CD28, a co-stimulatory cell surface molecule expressed by T cell subsets. Clone E18 has been shown to be able to stimulate murine T lymphocytes in combination with anti-mouse CD3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <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. Dennehy, K.M. <i>et al.</i> (2006) Cutting edge: monovalency of CD28 maintains the antigen dependence of T cell costimulatory responses. <a href="#">J Immunol. 176 (10): 5725-9.</a></li> <li>2. Beyersdorf, N. <i>et al.</i> (2008) Protection from graft-versus-host disease with a novel B7 binding site-specific mouse anti-mouse CD28 monoclonal antibody. <a href="#">Blood. 112 (10): 4328-36.</a></li> <li>3. Gogishvili, T. <i>et al.</i> (2012) Interruption of CD28-mediated costimulation during allergen challenge protects mice from allergic airway disease. <a href="#">J Allergy Clin Immunol. 130 (6): 1394-403.e4.</a></li> <li>4. Pletinckx, K. <i>et al.</i> (2015) Immature dendritic cells convert anergic nonregulatory T cells into Foxp3<sup>+</sup> IL-10<sup>+</sup> regulatory T cells by engaging CD28 and CTLA-4. <a href="#">Eur J Immunol. 45 (2): 480-91.</a></li> </ol> |
| <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>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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