

## 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.

<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 5% Sucrose						

**Immunogen** Alternate immunisation with A20 cells expressing mCD28 and recombinant mCD28Ig.

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**External Database**

**Links**

**UniProt:**

[P31041](#)    [Related reagents](#)

**Entrez Gene:**

[12487](#) Cd28    [Related reagents](#)

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**RRID** AB\_961468

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**Fusion Partners** Spleen cells from immunised CD28-/-knockout mice were fused with cells of the X63Ag8.653 myeloma cell line.

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**Specificity** **Mouse anti Mouse CD28 antibody, clone E18** 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.

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**Flow Cytometry** Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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**References**

1. Dennehy, K.M. *et al.* (2006) Cutting edge: monovalency of CD28 maintains the antigen dependence of T cell costimulatory responses. [J Immunol. 176 \(10\): 5725-9.](#)
  2. Beyersdorf, N. *et al.* (2008) Protection from graft-versus-host disease with a novel B7 binding site-specific mouse anti-mouse CD28 monoclonal antibody. [Blood. 112 \(10\): 4328-36.](#)
  3. Gogishvili, T. *et al.* (2012) Interruption of CD28-mediated costimulation during allergen challenge protects mice from allergic airway disease. [J Allergy Clin Immunol. 130 \(6\): 1394-403.e4.](#)
  4. Pletinckx, K. *et al.* (2015) Immature dendritic cells convert anergic nonregulatory T cells into Foxp3- IL-10+ regulatory T cells by engaging CD28 and CTLA-4. [Eur J Immunol. 45 \(2\): 480-91.](#)
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**Storage**

Store at +4°C. DO NOT FREEZE.  
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.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #20487 available at:  
20487: <https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf>

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**Regulatory**

For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

