

# Datasheet: MCA6133PE

**BATCH NUMBER 164986**

<b>Description:</b>	MOUSE ANTI HUMAN CD279:RPE
<b>Specificity:</b>	CD279
<b>Other names:</b>	PD-1
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	EH12.2H7
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS/1ml

## 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

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.

<b>Target Species</b>	Human		
<b>Species Cross Reactivity</b>	Reacts with: Primate <b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.		
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
	RPE 561nm laser	546	578
<b>Preparation</b>	Purified IgG prepared by size exclusion chromatography from tissue culture supernatant		

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	0.2% Bovine Serum Albumin
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q15116</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">5133</a>    PDCD1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	PD1
<b>Specificity</b>	<p><b>Mouse anti Human CD279 antibody, clone EH12.2H7</b> detects <a href="#">CD279</a>, a co-stimulatory molecule also known as programmed cell death-1 (PD-1).</p> <p>CD279 is a ~50-55 kDa membrane protein which is a member of the CD28 family, and functions as a regulator of T cell activation (<a href="#">Fife and Pauken, 2011</a>). It has two specific ligands; CD274 (PD-L1) and CD273 (PD-L2), and their interaction is key in the balance between stimulatory and inhibitory signals needed for effective immune responses to microbes and self-tolerance.</p> <p>CD279 is a marker for germinal center-associated T cells (<a href="#">Dorfman <i>et al</i>, 2006</a>) and is inducibly expressed by T cells, B cells, NKT cells and monocytes upon activation.</p>
<b>Purity</b>	>95% by SDS PAGE
<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.</p>
<b>Guarantee</b>	Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10041 available at:  <a href="https://www.bio-rad-antibodies.com/SDS/MCA6133PE">https://www.bio-rad-antibodies.com/SDS/MCA6133PE</a>  10041</p>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 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 Fax: +44 (0)1865 852 739 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 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>	<b>To find a</b>
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batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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