

Datasheet: MCA6133PE

Description:	MOUSE ANTI HUMAN CD279:RPE
Specificity:	CD279
Other names:	PD-1
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	EH12.2H7
Isotype:	IgG1
Quantity:	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.

	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.

Target Species

Human

Species Cross Reactivity

Reacts with: Primate

N.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.

Product Form

Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
RPE 488nm laser	496	578
RPE 561nm laser	546	578

Preparation

Purified IgG prepared by size exclusion chromatography from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative <0.1% Sodium Azide (NaN₃)
Stabilisers 0.2% Bovine Serum Albumin

External Database Links

UniProt:
[Q15116](#) [Related reagents](#)

Entrez Gene:
[5133](#) PDCD1 [Related reagents](#)

Synonyms PD1

Specificity **Mouse anti Human CD279 antibody, clone EH12.2H7** detects [CD279](#), a co-stimulatory molecule also known as programmed cell death-1 (PD-1).

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 ([Fife and Pauken, 2011](#)). 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.

CD279 is a marker for germinal center-associated T cells ([Dorfman et al. 2006](#)) and is inducibly expressed by T cells, B cells, NKT cells and monocytes upon activation.

Purity >95% by SDS PAGE

Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul

Storage Store at +4°C. DO NOT FREEZE.
This product should be stored undiluted. This product is photosensitive and should be protected from light.

Guarantee Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.

Health And Safety Information Material Safety Datasheet documentation #10041 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA6133PE>
10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

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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

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