Datasheet: MCA2630PE

Description:	MOUSE ANTI HUMAN CD273:RPE
Specificity:	CD273
Other names:	PD-L2
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	MIH14
Isotype:	IgG1
Quantity:	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.

	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

Product Form

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

Reconstitution

Reconstitute with 1.0ml 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 tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN_3)
1% Bovine Serum Albumin
5% Sucrose

Immunogen

Human B7-DC transfected L cells.

External Database Links

UniProt:
Q9BQ51 Related reagents

	Entrez Gene: 80380 PDCD1LG2 Related reagents
Synonyms	B7DC, CD273, PDCD1L2, PDL2
Fusion Partners	Cells from immunised mice were fused with cells of the P3U1 myeloma cell line.
Specificity	**Mouse anti Human CD273 antibody, clone MIH14** detects human CD273, also known as B7-DC and Programmed Death Ligand 2 (PD-L2). CD273 is a ~42 kDa member of the immunoglobulin receptor superfamily, and is a ligand for CD279 (PD-1). CD273 is primarily expressed on dendritic cells, and its expression can be induced on inflammatory macrophages when activated by interleukin 4 or Th2 cells. CD273 functions to inhibit T-cell proliferation by blocking cell cycle progression and cytokine production, and is particularly important in the maintenance of self tolerance.
Flow Cytometry	Use 10ul of the suggested working dilution to label $1x10^6$ cells in 100ul.
References	1. Konishi, J. *et al.* (2004) B7-H1 expression on non-small cell lung cancer cells and its relationship with tumor-infiltrating lymphocytes and their PD-1 expression. Clin Cancer Res. 10 (15): 5094-100. 2. Youngnak, P. *et al.* (2003) Differential binding properties of B7-H1 and B7-DC to programmed death-1. Biochem Biophys Res Commun. 307 (3): 672-7. 3. Volchenkov, R. *et al.* (2013) Type 1 regulatory T cells and regulatory B cells induced by tolerogenic dendritic cells. Scand J Immunol. 77 (4): 246-54. 4. Sauter, A. *et al.* (2015) Surface-mediated priming during in vitro generation of monocyte-derived dendritic cells. Scand J Immunol. 81 (1): 56-65.
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.
Shelf Life	18 months from date of reconstitution
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10075 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A)
HUMAN SEROBLOCK (BUF070B)

North & South America Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com
Worldwide Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com
Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

Printed on 11 Jan 2018

© 2018 Bio-Rad Laboratories Inc | Legal | Imprint