

Datasheet: MCA2630

Description:	MOUSE ANTI HUMAN CD273
Specificity:	CD273
Other names:	PD-L2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MIH14
Isotype:	IgG1
Quantity:	0.2 mg

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	▪			1/10 - 1/50
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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 - liquid
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)

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Human B7-DC transfected L cells.
External Database Links	<p>UniProt: Q9BQ51 Related reagents</p> <p>Entrez Gene: 80380 PDCD1LG2 Related reagents</p>
Synonyms	B7DC, CD273, PDCD1L2, PDL2
RRID	AB_1101684
Fusion Partners	Cells from immunised mice were fused with cells of the P3U1 myeloma cell line.
Specificity	<p>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.</p> <p>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.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
Histology Positive Control Tissue	Human tonsil
References	<ol style="list-style-type: none"> Konishi, J. <i>et al.</i> (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. Youngnak, P. <i>et al.</i> (2003) Differential binding properties of B7-H1 and B7-DC to programmed death-1. Biochem Biophys Res Commun. 307 (3): 672-7. Volchenkov, R. <i>et al.</i> (2013) Type 1 regulatory T cells and regulatory B cells induced by tolerogenic dendritic cells. Scand J Immunol. 77 (4): 246-54. Sauter, A. <i>et al.</i> (2015) Surface-mediated priming during in vitro generation of monocyte-derived dendritic cells. Scand J Immunol. 81 (1): 56-65.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>

Guarantee	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@680 , DyLight@800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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
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