

Datasheet: MCA2627

Description:	MOUSE ANTI HUMAN CD274
Specificity:	CD274
Other names:	PD-L1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MIH2
Isotype:	lgG1
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 <u>www.bio-rad-antibodies.com/protocols</u>.

		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry				1/20 - 1/200
	Immunohistology - Frozen			•	
	Immunohistology - Paraffin			•	
	ELISA			•	
	Immunoprecipitation			•	
	Western Blotting			•	
	Functional Assays				
	Where this product has r	not been te	sted for u	se in a particular tec	hnique this does not
	necessarily exclude its u	se in such	procedure	es. Suggested worki	ng dilutions are given as
	a guide only. It is recomm	nended that	at the use	titrates the product	for use in their own
	system using appropriate			•	
	-)				
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 salin	e			
Preservative Stabilisers	0.09% Sodium Azide (Na	aN ₃)			

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Human CD274 transfected P815 cells.
External Database Links	UniProt: <u>Q9NZQ7</u> <u>Related reagents</u> Entrez Gene:
	29126 CD274 Related reagents
Synonyms	B7H1, PDCD1L1, PDCD1LG1, PDL1
RRID	AB_1510067
Fusion Partners	Cells from immunised mice were fused with cells of the P3U1 myeloma cell line.
Specificity	 Mouse anti Human CD274 antibody, clone MIH2 detects human CD274, also known as B7-H1 and PD-1L, a cell surface glycoprotein which is a member of the B7 family of co-stimulatory molecules. CD274 is expressed constitutively on macrophages and dendritic cells, and is induced on activated T-cells, B-cells, endothelial cells and epithelial cells in response to Interferons alpha, beta and gamma. CD274 is reported to possess dual functions; inhibition of activated effector T cells and co-stimulation of naïve T cells. CD274 inhibits proliferation of activated T cells via ligation to the co-inhibitory molecule CD279 (programmed death-1; PD-1) leading to the secretion of the regulatory cytokine interleukin-10. CD274 has also been shown to costimulate early T cell priming and differentiation. Deregulated CD274 function has been reported in chronic viral and intracellular bacterial infection, as well as in many autoimmune diseases and cancers.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	 Kanai, T. <i>et al.</i> (2003) Blockade of B7-H1 suppresses the development of chronic intestinal inflammation. <u>J Immunol. 171 (8): 4156-63.</u> Darmochwal-Kolarz, D. <i>et al.</i> (2013) The expressions of co-stimulatory molecules are altered on putative antigen-presenting cells in cord blood. <u>Am J Reprod Immunol. 69 (2): 180-7.</u>
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. 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.

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

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87) <u>Alk. Phos.</u> , <u>HRP</u>			
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)	<u>FITC</u>		
Goat Anti Mouse IgG (Fc) (STAR120)	<u>FITC</u> , <u>HRP</u>		
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>		
Goat Anti Mouse IgG (H/L) (STAR117)	<u>Alk. Phos., DyLight®488</u> , <u>DyLight®680,</u> <u>DyLight®800</u> , <u>FITC, HRP</u>		

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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

From March 15, 2021, we will no longer supply printed datasheets with our products. Look out for updates on how to access your digital version at bio-rad-antibodies.com 'M349464:190306'

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