

Datasheet: MCA2633

Description:	MOUSE ANTI HUMAN CD276
Specificity:	CD276
Other names:	B7-H3
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MIH42
lsotype:	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 www.bio-rad-antibodies.com/protocols.							
		Yes	No	Not Determined	Suggested Dilution			
	Flow Cytometry	•			1/10 - 1/100			
	Immunohistology - Frozen	•			1/100			
	Immunohistology - Paraffin	1						
	ELISA			•				
	Immunoprecipitation							
	Western Blotting							
	Functional Assays							
	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.							
	negative/positive contre	//3.						
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)							
Approx. Protein Concentrations	IgG concentration 1.0mg/ml							
External Database Links	UniProt: Q5ZPR3 Related	d reagents						

Entrez Gene:

80381 CD276 Related reagents

Synonyms	B7H3					
Specificity	Mouse anti Human CD276 antibody, clone MIH42 detects CD276, a member of the B7 family of co-stimulatory molecules also known as B7-H3. CD276 is a type I transmembrane protein that induces the proliferation of CD4+ and CD8+ T cells, enhances the generation of cytotoxic T cells and selectively stimulates the production of interferon gamma.					
	Expression of CD276 can be induced on dendritic cells and monocytes by inflammatory cytokines, and is also widely expressed in peripheral tissues including the heart, kidney, testis and colon. In humans, CD276 exists as two isoforms which result from gene duplication and differential splicing.					
	CD276 is reported to have therapeutic potential for the regulation of cell-mediated immune responses to cancer, particularly in conjunction with anti-angiogenic therapy.					
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.					
Histology Positive Control Tissue	Acetone fixed Human Tonsil					
References	 Chapoval, A.I. <i>et al.</i> (2001) B7-H3: a costimulatory molecule for T cell activation and IFN-gamma production. <u>Nat Immunol. 2 (3): 269-74.</u> Sun, X. <i>et al.</i> (2003) Mouse B7-H3 induces antitumor immunity. <u>Gene Ther. 10 (20): 1728-34.</u> Ma, L. <i>et al.</i> (2007) Complete eradication of hepatocellular carcinomas by combined vasostatin gene therapy and B7H3-mediated immunotherapy. <u>J Hepatol. 46 (1): 98-106.</u> Tjomsland, V. <i>et al.</i> (2010) Semi mature blood dendritic cells exist in patients with ductal pancreatic adenocarcinoma owing to inflammatory factors released from the tumor. <u>PLoS One. 5: e13441.</u> Schulte, B.M. <i>et al.</i> (2015) Enterovirus-infected β-cells induce distinct response patterns in BDCA1+ and BDCA3+ human dendritic cells. <u>PLoS One. 10 (3): e0121670.</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.					
Shelf Life	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 (STAR76...)RPEGoat Anti Mouse IgG IgA IgM (STAR87...)Alk. Phos., HRP

Goat Anti	Mouse IgG (H/L) (STAR117)		<u>s.</u> , <u>DyLight®488, DyLigh</u> 0649, <u>DyLight®680</u> , <u>DyL</u> <u>RP</u>				
Rabbit An	ti Mouse IgG (STAR9)	FITC	_				
Goat Anti	Mouse IgG (STAR77)	HRP	HRP				
Rabbit An	ti Mouse IgG (STAR12)	RPE					
Goat Anti	Mouse IgG (Fc) (STAR120)	<u>FITC, HF</u>	<u>RP</u>				
Rabbit An	ti Mouse IgG (STAR8)	DyLight®	00800				
Goat Anti	Mouse IgG (STAR70)	FITC					
Rabbit An	ti Mouse IgG (STAR13)	HRP					
Human Ar	nti Mouse IgG1 (HCA036)	<u>HRP</u>					
Recomn	nended Negative Contro	ls					
MOUSE Ig	G1 NEGATIVE CONTROL (M	<u>CA928)</u>					
North & South		orldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21		
America	Fax: +1 919 878 3751 Email: antibody sales us@bio-rad.cor	n	Fax: +44 (0)1865 852 739 Email: antibody sales uk@bio	o-rad.com	Fax: +49 (0) 89 8090 95 50 Email: antibody sales de@bio-rad.c	om	
	2 12 10 11 11		'M312090:180119'				

Printed on 04 May 2018

© 2018 Bio-Rad Laboratories Inc | Legal | Imprint