

Datasheet: MCA5647F

Description:	RAT ANTI MOUSE CD276:FITC
Specificity:	CD276
Other names:	B7-H3
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	MJ18
lsotype:	lgG1
Quantity:	0.1 mg

Product Details

Applications	This product has been derived from testing wit communications from tl	hin our labor	atories,	peer-reviewed publica	ations or personal
	information. For genera	I protocol red			
	· ·	Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	-			Neat - 1/10
	Where this product has	not been tee	sted for u	use in a particular tecl	hnique this does not
	necessarily exclude its a guide only. It is recon system using appropria	nmended tha	t the use	er titrates the product	ng dilutions are given as for use in their own
Target Species	Mouse				
Product Form	Purified IgG conjugated	to Fluoresc	ein Isoth	iocyanate Isomer 1 (F	FITC) - liquid
Max Ex/Em	Fluorophore FITC	Excitation Ma 490	ax (nm)	Emission Max (nm) 525	
Preparation	Purified IgG prepared b supernatant	y affinity chr	omatogr	aphy on Protein G fro	m tissue culture
Buffer Solution	Phosphate buffered sal	ine			
Preservative Stabilisers	0.09% Sodium Azide (N 1% Bovine Serum Albu	0,			
Approx. Protein Concentrations	IgG concentration 0.1m	ıg/ml			

External Database Links	UniProt: <u>Q8VE98</u> <u>Related reagents</u>
	Entrez Gene: <u>102657</u> Cd276 <u>Related reagents</u>
Synonyms	B7h3
RRID	AB_10848350
Fusion Partners	Lymph node cells from immunised Sprague Dawley rats were fused with cells of the P3U1 myeloma cell line.
Specificity	Rat anti Mouse CD276 antibody, clone MJ18 specifically recognizes mouse CD276, otherwise known as B7-H3, a ubiquitously expressed transmembrane glycoprotein and member of the B7 family of co-stimulatory molecules, which acts as both a positive and negative regulator of T-cell-mediated immune responses.
	CD276 is highly expressed in bone during embryogenesis, and can be induced on dendritic cells and monocytes by inflammatory cytokines. CD276 has been implicated in the development of acute and chronic transplant rejection, and is reported to have therapeutic potential as a regulator of cell-mediated immune responses to cancer, particularly in conjunction with anti-angiogenic therapy. In mice, CD276 has been linked with the development of pathogenic Th2 cells during the induction phase of allergic asthma and have shown that Rat anti Mouse CD276 antibody, clone MJ18 inhibits stimulated CD4+ T-cell proliferation (Nagashima <i>et al.</i> 2008).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	 Nagashima, O. <i>et al.</i> (2008) B7-H3 contributes to the development of pathogenic Th2 cells in a murine model of asthma. <u>J Immunol. 181 (6): 4062-71.</u> Fukushima, A. <i>et al.</i> (2007) B7-H3 regulates the development of experimental allergic conjunctivitis in mice. <u>Immunol Lett. 113 (1): 52-7.</u>
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at:

Regulator	ry For res	earch purpose	s only		
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