

Datasheet: MCA5647F

Description:	RAT ANTI MOUSE CD276:FITC
Specificity:	CD276
Other names:	B7-H3
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	MJ18
Isotype:	IgG1
Quantity:	0.1 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	■			Neat - 1/10

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	Mouse		
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1mg/ml		
Immunogen	Mouse IgG2a Fc-CD276 (aa 1-242).		
External Database Links	UniProt: Q8VE98 Related reagents		

Entrez Gene:[102657](#) Cd276 [Related reagents](#)

Synonyms	B7h3
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 et al. 2008).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	1. Nagashima, O. <i>et al.</i> (2008) B7-H3 contributes to the development of pathogenic Th2 cells in a murine model of asthma. J Immunol. 181 (6): 4062-71. 2. Fukushima, A. <i>et al.</i> (2007) B7-H3 regulates the development of experimental allergic conjunctivitis in mice. Immunol Lett. 113 (1): 52-7.
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. This product is photosensitive and should be protected from light. 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 #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL:FITC \(MCA1211F\)](#)

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