Datasheet: MCA5647

Description:	RAT ANTI MOUSE CD276
Specificity:	CD276
Other names:	B7-H3
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MJ18
Isotype:	IgG1
Quantity:	0.25 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	▪			1/25 - 1/200

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 - 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	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. *et al.* (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. *et al.* (2007) B7-H3 regulates the development of experimental allergic conjunctivitis in mice. Immunol Lett. 113 (1): 52-7.
Storage	Store at +4^{o}C or at -20^{o}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: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®549, DyLight®649, DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos., Biotin
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

Recommended Negative Controls

RAT IgG1 NEGATIVE CONTROL (MCA1211)

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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