

Datasheet: MCA2464A647

Description:	RAT ANTI MOUSE CD279:Alexa Fluor® 647
Specificity:	CD279
Other names:	PD-1
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	RMP1-30
Isotype:	lgG2b
Quantity:	100 TESTS/1ml

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 - 1/5

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Mouse			
Product Form	Purified IgG conjugate	ed to Alexa Fluor® 64	7 - liquid	
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nn	n)
	Alexa Fluor®647	650	665	
Preparation	Purified IgG prepared supernatant	by affinity chromatog	raphy on Protein G	i from tissue cultur
Buffer Solution	Phosphate buffered s	aline		
Preservative	0.09% Sodium Azide			
Stabilisers	1% Bovine Serum	Albumin		
Approx. Protein Concentrations	IgG concentration 0.0	5 mg/ml		

Immunogen	PD-1 transferred BHK cells.
External Database Links	UniProt: Q02242 Related reagents Entrez Gene: 18566 Pdcd1 Related reagents
Synonyms	Pd1
RRID	AB_999315
Fusion Partners	Spleen cells from immunised Sprague Dawley rats were fused with cells of the P3U1 myeloma cell line.
Specificity	Rat anti Mouse CD279 antibody, clone RMP1-30 recognizes mouse CD279, a ~55 kDa cell surface protein, a member of the CD28/CTLA-4 family, otherwise known as Programmed Death-1 (PD-1). CD279 is expressed predominantly on activated T- and B-lymphocytes and on a subset of thymocytes. CD279, an immunoinhibitory receptor, plays a critical role in peripheral tolerance induction and prevention of autoimmune disease (Ansari et al. 2003). Two members of the B7 family, B7-H1 (PD-L1) and B7-DC (PD-L2), have been identified as the ligands for CD279.
	Rat anti Mouse CD279 antibody, clone RMP1-30 does not block the binding of either B7-H1-Ig or B7-DC-Ig fusion proteins to PD-1 transfected BHK cells.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 Matsumoto, K. <i>et al.</i> (2004) B7-DC regulates asthmatic response by an IFN-gamma-dependent mechanism. <u>J Immunol. 172 (4): 2530-41.</u> Bartkowiak, T. (2013) Novel Imaging-Based Techniques Reveal a Role for PD-1/PD-L1 in Tumor Immune Surveillance in the Lung. <u>UT GSBS Dissertations and Theses (Open Access). Paper 354.</u> Hu, Z. <i>et al.</i> (2013) Regulatory CD8+ T cells associated with erosion of immune surveillance in persistent virus infection suppress <i>in vitro</i> and have a reversible proliferative defect. <u>J Immunol. 191 (1): 312-22.</u> Groh, J. <i>et al.</i> (2018) Teriflunomide attenuates neuroinflammation-related neural damage in mice carrying human PLP1 mutations. <u>J Neuroinflammation. 15 (1): 194.</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.

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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2464A647 10041
Regulatory	For research purposes only

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