

Datasheet: MCA2386A647T BATCH NUMBER 154577

Description:	RAT ANTI MOUSE CD223:Alexa Fluor® 647
Specificity:	CD223
Other names:	LAG-3
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	C9B7W
Isotype:	lgG1
Quantity:	25 TESTS/0.25ml

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 <u>www.bio-rad-antibodies.com/protocols</u> .					
		Yes No	Not Determined	Suggested Dilution		
	Flow Cytometry			Neat - 1/10		
	necessarily exclude its	use in such proced nmended that the us	ser titrates the antibody	g dilutions are given as		
Target Species	Mouse					
Product Form	Purified IgG conjugated to Alexa Fluor® 647 - liquid					
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)			
	Alexa Fluor®647	650	665			
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 1% Bovine Serum A	Albumin				
Approx. Protein	IgG concentration 0.05	mg/ml				

Concentrations

Immunogen	Murine CD223 Ig fusion protein.	
External Database Links	UniProt: Q61790 Related reagents Entrez Gene: 16768 Lag3 Related reagents	
RRID	AB_2133342	
Fusion Partners	Cells from immunised Lewis rats were fused with cells of the Sp/20 myeloma cell line.	
Specificity	Rat anti Mouse CD223 antibody, clone C9B7W recognizes murine lymphocyte activation gene-3 (LAG-3), a ~70 kDa activation-induced cell surface molecule that is referred to as CD223.	
	Murine CD223 is expressed on activated CD4 positive and CD8 positive alpha/beta T lymphocytes and a subset of natural killer (NK) cells. CD223 binds to MHC class II molecules with high affinity and is reported to negatively regulate T cell homeostasis and T cell expansion.	
	Clone C9B7W recognizes an epitope within the D2 domain of CD223. Rat anti Mouse CD223 antibody, clone C9B7W is reported to block the <i>in vitro</i> function of murine LAG-3 but does not block binding of LAG-3 to MHC class II (<u>Workman <i>et al.</i> 2002</u>).	
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.	
	The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR (<u>BUF041A/B</u>).	
References	 Workman, C.J. <i>et al.</i> (2002) Cutting edge: molecular analysis of the negative regulatory function of lymphocyte activation gene-3. J Immunol. 169 (10): 5392-5. Workman, C.J. & Vignali, D.A. (2005) Negative regulation of T cell homeostasis by lymphocyte activation gene-3 (CD223). J Immunol. 174 (2): 688-95. Byrne, K.T. <i>et al.</i> (2011) Autoimmune melanocyte destruction is required for robust CD8+ memory T cell responses to mouse melanoma. J Clin Invest. 121 (5): 1797-809. Ordway, D. <i>et al.</i> (2007) The hypervirulent <i>Mycobacterium tuberculosis</i> strain HN878 induces a potent TH1 response followed by rapid down-regulation. J Immunol. 179: 522-31. 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. J Immunol. 191 (1): 312-22. Iwasaki, Y. <i>et al.</i> (2013) Egr-2 transcription factor is required for Blimp-1-mediated IL-10 production in IL-27-stimulated CD4+ T cells. Eur J Immunol. 43: 1063-73. Woo, S.R. <i>et al.</i> (2010) Differential subcellular localization of the regulatory T-cell 	

	protein LAG-3 and the coreceptor CD4. Eur J Immunol. 40: 1768-77.			
Storage	Store at +4°C or at -20°C if preferred.			
	This product should be stored undiluted.			
	Storage in frost-free freezers is not recommended. 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.			
Guarantee	12 months from date of despatch			
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2386A647T 10041			
Regulatory	For research purposes only			
Related Produc	ots			

Related Products

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A) MOUSE SEROBLOCK FcR (BUF041B)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0
America	Fax: +1 919 878 3751		Fax: +44 (0
	Email: antibody_sales_us@bio-rad.com		Email: anti

el: +44 (0)1865 852 700 Euro ax: +44 (0)1865 852 739 mail: 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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