

## Datasheet: MCA2386A647

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:	100 TESTS/1ml

## **Product Details**

Applications	This product has been derived from testing wit communications from t information. For genera rad-antibodies.com/pro	thin our labora he originators al protocol rec	itories, . Please	peer-reviewed publicate refer to references in	tions or personal dicated for further
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	-			Neat - 1/10
	Where this product has	s not been test	ted for a	use in a particular tech	inique this does not
	necessarily exclude its a guide only. It is recon system using appropria	nmended that	the use	er titrates the product f	g dilutions are given as or use in their own
Target Species	Mouse				
Product Form	Purified IgG conjugated	d to Alexa Flue	or® 647	7 - liquid	
Max Ex/Em	Fluorophore Alexa Fluor®647	Excitation Ma	x (nm)	Emission Max (nm) 665	
Preparation	Purified IgG prepared t supernatant	by affinity chro	matogr	aphy on Protein G fror	n tissue culture
Buffer Solution	Phosphate buffered sal	line			
Preservative Stabilisers	0.09% sodium azide (N 1% bovine serum albur	0,			
Approx. Protein Concentrations	IgG concentration 0.05	mg/ml			

Immunogen	Murine CD223 Ig fusion protein.
External Database Links	UniProt: <u>Q61790</u> <u>Related reagents</u>
	Entrez Gene: <u>16768</u> Lag3 <u>Related reagents</u>
RRID	AB_566650
Fusion Partners	Cells from immunized Lewis rats were fused with cells of the Sp/20 myeloma cell line.
Specificity	<b>Rat anti Mouse CD223 antibody, clone C9B7W</b> recognizes murine lymphocyte activation gene-3 (LAG-3), a ~70 kDa activation-induced cell surface molecule that is also 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 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl. The Fc region of monoclonal antibodies may bind to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR ( <u>BUF041A/BUF041B</u> ).
References	<ol> <li>Workman, C.J. <i>et al.</i> (2002) Cutting edge: molecular analysis of the negative regulatory function of lymphocyte activation gene-3. <u>J Immunol. 169 (10): 5392-5.</u></li> <li>Workman, C.J. &amp; Vignali, D.A. (2005) Negative regulation of T cell homeostasis by lymphocyte activation gene-3 (CD223). <u>J Immunol. 174 (2): 688-95.</u></li> <li>Byrne, K.T. <i>et al.</i> (2011) Autoimmune melanocyte destruction is required for robust CD8+ memory T cell responses to mouse melanoma. <u>J Clin Invest. 121 (5): 1797-809.</u></li> <li>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. <u>J Immunol. 179: 522-31.</u></li> <li>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></li> <li>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. <u>Eur J Immunol. 43: 1063-73.</u></li> <li>Woo, S.R. <i>et al.</i> (2010) Differential subcellular localization of the regulatory T-cell protein LAG-3 and the coreceptor CD4. <u>Eur J Immunol. 40: 1768-77.</u></li> </ol>

	-20°C on receipt. Whe	•	ample as nee	eded. Keep aliquots at 2-8°C fo
	Avoid repeated freezir	•	nay denature	e the antibody. Storage in otosensitive and should be
Guarantee	12 months from date of	of despatch		
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