

Datasheet: MCA2386A647 BATCH NUMBER 155051

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	derived from testing wi communications from t	thin our laboratorie he originators. Plea al protocol recomm	the following application s, peer-reviewed publica ase refer to references in endations, please visit <u>w</u>	ations or personal ndicated for further
		Yes No	Not Determined	Suggested Dilution
	Flow Cytometry			Neat - 1/10
	necessarily exclude its	use in such proced nmended that the u	ser titrates the antibody	ng dilutions are given as
Target Species	Mouse			
Product Form	Purified IgG conjugated	d to Alexa Fluor® 6	47 - liquid	
Max Ex/Em	Fluorophore	Excitation Max (nm) Emission Max (nm)	
	Alexa Fluor®647	650	665	
Preparation	Purified IgG prepared t supernatant	oy affinity chromatc	graphy on Protein G fro	m tissue culture
Buffer Solution	Phosphate buffered sa	line		
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:Q61790Related reagentsEntrez Gene:16768Lag3Related reagents
RRID	AB_566650
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 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 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

Storago		protein LA						
Storage		Store at +	4°C or at -2	20°C if prefe	rred.			
		This prod	uct should t	be stored und	diluted.			
			n frost-free f		ot recomme	ended. This	product is photose	ensitive and
			•	-	ving as this	mav denatu	re the antibody. S	hould this
		-		-	-	-	fugation before us	
Guarantee		12 month	s from date	of despatch				
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