

Datasheet: MCA1041A488

BATCH NUMBER 159443

Description:	RAT ANTI DOG CD44:Alexa Fluor® 488
Specificity:	CD44
Other names:	H-CAM, PGP-1
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	YKIX337.8.7
Isotype:	lgG2a
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	-		1/10 - 1/20			
	Where this product ha necessarily exclude its a guide only. It is recor- system using appropri	s not been tested s use in such proc mmended that the ate negative/posit	for use in a particular t edures. Suggested wo user titrates the produ ive controls.	technique this does not rking dilutions are given as uct for use in their own			
Target Species	Dog						
Species Cross	Reacts with: Raccoon						
Reactivity	N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or						
	personal communications from the originators. Please refer to references indicated for						
	further information.						
Product Form	Purified IgG conjugated to Alexa Fluor 488 - liquid						
Max Ex/Em	Fluorophore	Excitation Max (n	m) Emission Max (nm	1)			
	Alexa Fluor®488	495	519				
Preparation	Purified IgG prepared supernatant	by affinity chroma	tography on Protein G	from tissue culture			

Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin	
Approx. Protein Concentrations	IgG concentration 0.05mg/ml	
Immunogen	Concanavilin A activated Canine T cells.	
External Database Links	UniProt: Q28284 Related reagents Description Related reagents Entrez Gene: 403939 CD44 Related reagents	
RRID	AB_10926391	
Fusion Partners	Spleen cells from immunised DA rats were fused with cells of the rat Y3/Ag1.2.3.myelom cell line.	ıa
Specificity	Rat anti Dog CD44 antibody, clone YKIX337.8.7 recognizes canine CD44, also known as H-CAM, a single-pass type 1 membrane of approximately 90 kDa expressed by most leucocytes and epithelial cells. CD44 expression is markedly increased upon cell activation (<u>Alldinger <i>et al.</i> 2000</u>).	
	CD44 is involved in cell-cell, cell adhesion and cell migration and is the principal cellular receptor for hyaluronate via it's <u>LINK</u> domain, additionally CD44 interacts with other ligands including collagens and metalloproteinases.	
	Altered CD44 expression is detected in many forms of invasive and metastatic cancer, CD44 expression has been observed on canine mammary and melanocytic tumors (<u>Serr</u> <u>et al. 2004</u>).	<u>a</u>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.	
References	 Cobbold, S. & Metcalfe,S. (1994) Monoclonal antibodies that define canine homologue of human CD antigens: summary of the First International Canine Leukocyte Antigen Workshop (CLAW). <u>Tissue Antigens. 43 (3): 137-54.</u> Stein, V.M. <i>et al.</i> (2008) Immunophenotypical characterization of monocytes in canine distemper virus infection. <u>Vet Microbiol. 131:237-46.</u> Salvatierra, A. <i>et al.</i> (2001) Antithrombin III prevents early pulmonary dysfunction after lung transplantation in the dog. <u>Circulation. 104: 2975-80.</u> Sanchez, M.A. <i>et al.</i> (2004) Organ-specific immunity in canine visceral leishmaniasis: analysis of symptomatic and asymptomatic dogs naturally infected with <i>Leishmania chagasi.</i> <u>Am J Trop Med Hyg. 70: 618-24.</u> Stein, V.M. <i>et al.</i> (2004) Characterization of canine microglial cells isolated <i>ex vivo.</i> <u>Ve</u> 	es r

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	15. Gouveia, G.M. <i>et al.</i> (2013) Analysis of cancer stem cells in dog's mammary
	neoplasias. <u>Braz J Vet Med, 35(3), 229-35</u> .
Storago	This product is chipped at ambient temperature. It is recommended to aliquet and store at
Storage	20°C on receipt. When the wed, aligned the sample as peeded. Keep alignets at 2,8°C for
	-20 C on receipt. When thawed, and store the remaining aliquets at 20°C
	short term use (up to 4 weeks) and store the remaining anyuots at -20 C.
	Avoid repeated freezing and thewing as this may denoture the antibody. Storage in
	frost free freezers is not recommended. This product is photosonsitive and should be
	nost-nee neezers is not recommended. This product is photosensitive and should be
Guarantee	12 months from date of despatch
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Printed on 18 Jan 2024

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