

Datasheet: MCA4703PE

Description:	RAT ANTI MOUSE CD44:RPE
Specificity:	CD44
Other names:	H-CAM, PGP-1
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	IM7
Isotype:	lgG2b
Quantity:	0.1 mg

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	•		1/5 - 1/10		
	Where this product 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 product for use in their own system using appropriate negative/positive controls.					
Target Species						
Species Cross Reactivity	Reacts with: Human, Baboon, Cynomolgus monkey, Rhesus Monkey, Horse, Bovine, Pig, Dog, Cat, Ferret Based on sequence similarity, is expected to react with:Mustelid 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 R. Phycoerythrin (RPE) - liquid					
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)			
	RPE 488nm laser	496	578			
Preparation	Purified IgG prepared	by affinity chromatog	raphy			

Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)		
Approx. Protein Concentrations	IgG concentration 0.2 mg/ml		
Immunogen	Dexamethasone-induced myeloid leukemia M1 cells.		
External Database Links	UniProt: <u>P15379</u> <u>Related reagents</u> Entrez Gene:		
Synonyms	<u>12505</u> Cd44 <u>Related reagents</u>		
Specificity	Ly-24 Rat anti Mouse CD44 antibody, clone IM7 recognizes CD44, also known as H HUTCH and lymphocyte antigen 24 (Ly-24).	H-CAM,	
	CD44 is a cell surface receptor for hyaluronic acid, although it can also interact ligands such as collagens and matrix metalloproteinases. This protein plays a r variety of cellular functions, such as adhesion, lymphocyte activation and lymph homing. It is also involved in cell migration and plays a role in tumor metastasis has many distinct isoforms responsible for its functional diversity.	role in a n node	
	Rat anti Mouse CD44 antibody, clone IM7 recognizes all isoforms of CD44 and reported to inhibit a delayed-type hypersensitivity response <i>in vivo</i> and to induc complement-mediated cytotoxicity.		
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul		
References	 Lesley, J. <i>et al.</i> (1992) Requirements for hyaluronic acid binding by CD44: a cytoplasmic domain and activation by antibody. J Exp Med. 175: 257-66. Camp, R.L. <i>et al.</i> (1993) CD44 is necessary for optimal contact allergic respont required for normal leukocyte extravasation. J Exp Med. 178: 497-507. Brocke, S. <i>et al.</i> (1999) Antibodies to CD44 and integrin alpha4, but not L-se prevent central nervous system inflammation and experimental encephalomyel blocking secondary leukocyte recruitment. Proc Natl Acad Sci U S A. 96: 6896-4. Morrison, H. <i>et al.</i> (2001) The NF2 tumor suppressor gene product, merlin, n contact inhibition of growth through interactions with CD44. Genes Dev.15: 968 Mckallip, R.J. <i>et al.</i> (2002) Role of CD44 in activation-induced cell death: CD44-deficient mice exhibit enhanced T cell response to conventional and supplint Immunol. 14 (9): 1015-26. Lesley, J. <i>et al.</i> (2003) Hyaluronan binding by cell surface CD44. J Biol Cher 26967-75. Katoh, S. <i>et al.</i> (2003) A role for CD44 in an antigen-induced murine model of the second supplication. 	electin, itis by <u>-901.</u> nediates <u>-80.</u> erantigens.	

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Storage	This product is shipped at ambient temperature. Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA4703PE 10040
Regulatory	For research purposes only

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