Datasheet: MCA4703 BATCH NUMBER 169228

Description:	RAT ANTI MOUSE CD44
Specificity:	CD44
Other names:	H-CAM, PGP-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	IM7
Isotype:	lgG2b
Quantity:	0.25 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 www.biorad-antibodies.com/protocols. Yes No Not Determined Suggested Dilution Flow Cytometry 1/20 - 1/50 . Immunohistology - Frozen . Immunohistology - Paraffin • ELISA Immunoprecipitation . Western Blotting • **Functional Assays** .

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	Mouse
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 - liquid					
Preparation	Purified IgG prepared by affinity chromatography					
Buffer Solution	Phosphate buffered saline					
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)					
Approx. Protein Concentrations	IgG concentration 0.5mg/ml					
Immunogen	Dexamethasone-induced myeloid leukemia M1 cells.					
External Database Links	UniProt: <u>P15379</u> <u>Related reagents</u> Entrez Gene: <u>12505</u> Cd44 <u>Related reagents</u>					
Synonyms	Ly-24					
RRID	AB_2076194					
Specificity	Rat anti Mouse CD44 antibody, clone IM7 recognizes CD44, also known as H-CAM, HUTCH and lymphocyte antigen 24 (Ly-24).					
	CD44 is a cell surface receptor for hyaluronic acid, although it can also interact with other ligands such as collagens and matrix metalloproteinases. This protein plays a role in a variety of cellular functions, such as adhesion, lymphocyte activation and lymph node homing. It is also involved in cell migration and plays a role in tumor metastasis. CD44 has many distinct isoforms responsible for its functional diversity.					
	Rat anti Mouse CD44 antibody, clone IM7 recognizes all isoforms of CD44 and has been reported to inhibit a delayed-type hypersensitivity response <i>in vivo</i> and to induce complement-mediated cytotoxicity.					
Flow Cytometry						
References	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.					

	5. Mckallip, R.J. et al. (2002) Role of CD44 in activation-induced cell death:				
	CD44-deficient mice exhibit enhanced T cell response to conventional and superantigens.				
	Int Immunol. 14 (9): 1015-26.				
	6. Lesley, J. <i>et al.</i> (2003) Hyaluronan binding by cell surface CD44. <u>J Biol Chem. 275:</u> <u>26967-75.</u>				
	7. Katoh, S. <i>et al.</i> (2003) A role for CD44 in an antigen-induced murine model of				
	pulmonary eosinophilia. <u>J Clin Invest. 111: 1563-70.</u>				
	8. Rutigliano, J.A. <i>et al.</i> (2008) Screening monoclonal antibodies for cross-reactivity in the				
	ferret model of influenza infection. <u>J Immunol Methods. 336: 71-7.</u>				
	9. Ariyoshi, W. <i>et al.</i> (2010) Internalization of aggrecan G1 domain neoepitope ITEGE in				
	chondrocytes requires CD44. <u>J Biol Chem. 285: 36216-24.</u>				
	10. Martín-Villar, E. et al. (2010) Podoplanin associates with CD44 to promote directional				
	cell migration. <u>Mol Biol Cell. 21: 4387-99.</u>				
	11. Hartley, A.N. & Tarleton, R.L. (2015) Chemokine receptor 7 (CCR7)-expression and				
	IFNy production define vaccine-specific canine T-cell subsets. Vet Immunol Immunopathol.				
	<u>164 (3-4): 127-36.</u>				
	12. Zhu, C. et al. (2020) Antinociceptive effect of intrathecal injection of miR-9-5p modified				
	mouse bone marrow mesenchymal stem cells on a mouse model of bone cancer pain. ${\tt J}$				
	Neuroinflammation. 17 (1): 85.				
	13. Lara, M.L. et al. (2023) Influence of culture conditions on the secretome of				
	mesenchymal stem cells derived from feline adipose tissue: Proteomics approach.				
	Biochimie. 211: 78-86.				
	14. Maeda, S. et al. (2021) NAFLD exacerbates cholangitis and promotes				
	cholangiocellular carcinoma in mice. Cancer Sci. 112 (4): 1471-80.				
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at				
	-20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for				
	short term use (up to 4 weeks) and store the remaining aliquots at -20°C.				
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in				
	frost-free freezers is not recommended.				
Guarantee	12 months from date of despatch				
Health And Safety	Material Safety Datasheet documentation #10040 available at:				
Information	https://www.bio-rad-antibodies.com/SDS/MCA4703				
	10040				
Regulatory	For research purposes only				

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16)	DyLight®800
Rabbit Anti Rat IgG (STAR17)	<u>FITC</u>
Goat Anti Rat IgG (STAR72)	<u>HRP</u>
Goat Anti Rat IgG (STAR69)	<u>FITC</u>

Goat Anti Rat IgG (STAR73...)RPERabbit Anti Rat IgG (STAR21...)HRPGoat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)DyLight®550, DyLight®650, DyLight®800Goat Anti Rat IgG (STAR131...)Alk. Phos., BiotinRecommended Useful ReagentsANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751	3751 Fax: +44 (0)1865 852 739			Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us(@bio-rad.com	Email: antibody_sales_uk@bio-rad.com		Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M390185:210825'

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