

Datasheet: MCA2504T

Description:	MOUSE ANTI HUMAN CD44		
Specificity:	CD44		
Other names:	H-CAM, PGP-1		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	Bu52		
Isotype:	lgG1		
Quantity:	25 µg		

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	-			1/25 - 1/100	
	Immunohistology - Frozen	-				
	Immunohistology - Paraffin (1)	-			1/100 - 1/200	
	ELISA			•		
	Immunoprecipitation	-				
	Western Blotting			•		
	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 a					
	a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls. (1)This product requires antigen retrieval using heat treatment prior to staining paraffin sections.Sodium citrate buffer pH 6.0 is recommended for this purpose.					
Target Species	Human					
Product Form	Purified IgG - liquid					
Preparation	Purified IgG prepared by supernatant	affinity cł	nromatog	raphy on Protein A fro	m tissue culture	
Buffer Solution	Phosphate buffered salin	e				

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)			
Carrier Free	Yes			
Approx. Protein Concentrations	IgG concentration 1.0mg/ml			
External Database Links	UniProt: <u>P16070</u> <u>Related reagents</u>			
	Entrez Gene: 960 CD44 <u>Related reagents</u>			
Synonyms	LHR, MDU2, MDU3, MIC4			
RRID	AB_1102047			
Specificity	Mouse anti Human CD44 antibody, clone Bu52 recognizes the human CD44 cell surface antigen, a ~100 kDa glycoprotein widely expressed on human leucocytes, white matter of the brain and by some epithelial cells of the intestine and of the breast. Several isoforms of CD44 exist, including the predominant CD44H isoform detected in many normal tissues. Mouse anti Human CD44 antibody, clone Bu52 recognizes an epitope that is common to all CD44 isoforms.			
	CD44 is a receptor for hyaluronic acid (HA) and is involved in cell-cell interactions, cell adhesion and migration. CD44 also participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing. CD44 expression may be up-regulated upon some carcinomas, and it has been speculated that this may be related to metastatic potential.			
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^{6} cells in 100ul.			
References	 Belitsos, P.C. <i>et al.</i> (1990) Homotypic cell aggregation induced by anti-CD44(Pgp-1) monoclonal antibodies and related to CD44(Pgp-1) expression. J Immunol. 144 (5): 1661-70. Katz, E. <i>et al.</i> (2012) Targeting of Rac GTPases blocks the spread of intact human breast cancer. Oncotarget. 3 (6): 608-19. Muerza-Cascante, M.L. <i>et al.</i> (2017) Endosteal-like extracellular matrix expression on melt electrospun written scaffolds. Acta Biomater. 52: 145-58. Hanke-Roos, M. <i>et al.</i> (2017) CD44 mediates the catch-bond activated rolling of HEPG2lso epithelial cancer cells on hyaluronan. Cell Adh Migr. 11 (5-6): 476-87. Noda, S. <i>et al.</i> (2019) Effect of cell culture density on dental pulp-derived mesenchymal stem cells with reference to osteogenic differentiation. Sci Rep. 9 (1): 5430. Thorne, R.F. <i>et al.</i> (2020) Evaluating nuclear translocation of surface receptors: recommendations arising from analysis of CD44. Histochem Cell Biol. 153 (2): 77-87. Orikasa, S. <i>et al.</i> (2022) Hypoxia-inducible factor 1α induces osteo/odontoblast differentiation of human dental pulp stem cells via Wnt/β-catenin transcriptional cofactor 			

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 Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2504T 10040		
Regulatory	For research purposes only		

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77	.) <u>HRP</u>						
Rabbit Anti Mouse IgG (STAR12) <u>RPE</u>						
Goat Anti Mouse IgG IgA IgM (S	TAR87) <u>Alk. I</u>	Phos., <u>HRP</u>					
Goat Anti Mouse IgG (STAR76	.) <u>RPE</u>						
Rabbit Anti Mouse IgG (STAR13	5) <u>HRP</u>	HRP					
Goat Anti Mouse IgG (STAR70) <u>FITC</u>							
Goat Anti Mouse IgG (H/L) (STA	R117) <u>Alk. I</u>	<u>Phos.</u> , <u>DyLight®488</u> , <u> </u>	<u>DyLight®550,</u>				
	DyLie	ght®650, DyLight®68	0, DyLight®80	<u>0</u> ,			
	<u>FITC</u>	, <u>HRP</u>					
Rabbit Anti Mouse IgG (STAR9) <u>FITC</u>						
Goat Anti Mouse IgG (Fc) (STAF	R120) <u>FITC</u>	, <u>HRP</u>					
Recommended Negative Co	ntrols						
MOUSE IgG1 NEGATIVE CONTROL (MCA928)							
North & South Tel: +1 800 265 7376		Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21			
America Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739	rad com	Fax: +49 (0) 89 8090 95 50			
Email: antibody_sales_us@bio-	au.com	Email: antibody_sales_uk@bic	-lau.com	Email: antibody_sales_de@bio-rad.com			
To find a batch/lot specific datashee	t for this product,	please use our online	search tool at: t	oio-rad-antibodies.com/datasheets			

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