Datasheet: MCA2726 BATCH NUMBER 1804

Description:	MOUSE ANTI HUMAN CD44		
Specificity:	CD44		
Other names:	H-CAM, PGP-1		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	156-3C11		
Isotype:	lgG2a		
Quantity:	0.2 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>.

	rad-antibodies.com/proto	<u>cols</u> .			
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	•			1/50 - 1/100
	Immunohistology - Frozen	•			1/100
	Immunohistology - Paraffin (1)	-			1/100
	ELISA			•	
	Immunoprecipitation	•			
	Western Blotting				
	Immunofluorescence				
	Where this product has not been tested for use in a particular technique necessarily exclude its use in such procedures. Suggested working dil a guide only. It is recommended that the user titrates the product for us system using appropriate negative/positive controls. (1) This product requires antigen retrieval using heat treatment priparaffin sections.Sodium citrate buffer pH 6.0 is recommended fo				
Target Species	Human				
Species Cross Reactivity	Reacts with: Baboon, Afri N.B. Antibody reactivity a	-			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 on Protein A				
Buffer Solution	Phosphate buffered saline				
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)				
Carrier Free	Yes				
Approx. Protein Concentrations	IgG concentration 1.0mg/ml				
Immunogen	Stimulated human leucocytes.				
External Database Links	UniProt: P16070 Related reagents Entrez Gene: 960 CD44 Related reagents				
Synonyms	LHR, MDU2, MDU3, MIC4				
RRID	AB_999249				
Specificity	Mouse anti Human CD44 antibody, clone 156-3C11 recognizes human Phagocytic glycoprotein 1 also known as CD44, HCAM or CD44s. CD44 is a ~90 kDa single pass type I transmembrane glycoprotein. Various isoforms of CD44 exist due to differential expression of exon products form the membrane proximal region of the extracellular domain. Mouse anti Human CD44 antibody, clone 156-3C11 recognizes the ~90 kDa standard form lacking any of the alternative spliced products, the clone is expected to recognize all isoforms of CD44. CD44 is expressed on leucocytes, erythrocytes, white matter of the brain and some epithelial cells of the breast and small intestine. Antibodies produced by clone 156-3C11 recognise epitope 3, defined as a protease resistant epitope on the CD44 molecule (CD44 and CD45R Cluster report. In Leucocyte Typing V. White cell differentiation antigens. Eds Schlossman, S.F. <i>et al</i>).				
	cellular functions including lymphocyte activation, recirculation and homing (<u>Shimizu <i>et al.</i></u> <u>1989</u>). CD44 expression may be up-regulated upon some carcinomas, and it has been speculated that this may be related to metastatic potential (<u>East and Hart 1993</u>).				
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.				
Histology Positive Control Tissue	Human tonsil.				

Western Blotting	MCA2726 detects a band of approximately 80kDa in HeLa cell lysates.				
References	1. Denning, S.M. <i>et al.</i> (1995) CD44 and CD45R Cluster report. In Leucocyte Typing V. White cell differentiation antigens. Eds Schlossman, S.F. <i>et al.</i> Oxford University Press. Volume 2,AS10:1713 – 1719				
	2. Olsson, E. et al. (2011) CD44 isoforms are heterogeneously expressed in breast cancer				
	and correlate with tumor subtypes and cancer stem cell markers. <u>BMC Cancer. 11: 418.</u> 3. Alves, C.S. <i>et al.</i> (2009) Biomolecular characterization of CD44-fibrin(ogen) binding: distinct molecular requirements mediate binding of standard and variant isoforms of CD44				
	to immobilized fibrin(ogen). <u>J Biol Chem. 284: 1177-89.</u>				
	 Heidemann, F. <i>et al.</i> (2014) Selectins mediate small cell lung cancer systemic metastasis. <u>PLoS One. 9(4):e92327.</u> 				
	5. Zhang, D. <i>et al.</i> (2015) Screening and Identification of a Phage Display Derived Peptide That Specifically Binds to the CD44 Protein Region Encoded by Variable Exons. <u>J Biomol</u> Screen. pii: 1087057115608604.				
	6. Zhang, P. <i>et al.</i> (2014) CD44 variant, but not standard CD44 isoforms, mediate				
	disassembly of endothelial VE-cadherin junction on metastatic melanoma cells. FEBS				
	Lett. 588 (24): 4573-82.				
	7. Pinto, F. et al. (2014) T-box transcription factor brachyury is associated with prostate				
	cancer progression and aggressiveness. <u>Clin Cancer Res. 20 (18): 4949-61.</u>				
	8. Afonso, J. <i>et al.</i> (2015) CD147 and MCT1-potential partners in bladder cancer aggressiveness and cisplatin resistance. <u>Mol Carcinog. 54 (11): 1451-66.</u>				
	9. Lawson, J.S. <i>et al.</i> (2018) Characterisation of feline renal cortical fibroblast cultures and their transcriptional response to transforming growth factor 81, BMC Viot Res. 14 (1): 76				
	their transcriptional response to transforming growth factor β1. <u>BMC Vet Res. 14 (1): 76.</u> 10. Lawson, J.S. <i>et al.</i> (2019) Characterisation of Crandell-Rees Feline Kidney (CRFK)				
	cells as mesenchymal in phenotype. <u>Res Vet Sci. 127: 99-102.</u>				
Storage	Store at +4°C or at -20°C if preferred.				
	Storage in frost-free freezers is not recommended.				
	This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. 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/MCA2726 10040				
Regulatory	For research purposes only				

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)RPEGoat Anti Mouse IgG IgA IgM (STAR87...)HRPGoat Anti Mouse IgG (STAR76...)RPE

Goat Anti Mouse IgG (STAR70) Goat Anti Mouse IgG (H/L) (STAR117)	<u>FITC</u> <u>Alk. Phos., DyLight®488, DyLight®550,</u> DyLight®650, DyLight®680, DyLight®800,
	FITC, HRP
Goat Anti Mouse IgG (STAR77)	HRP
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP
Rabbit Anti Mouse IgG (STAR13)	HRP
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>
Recommended Negative Controls	
MOUSE IgG2a NEGATIVE CONTROL (MCAS	<u>)29)</u>

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America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	id.com	Email: antibody_sales_uk@bio-ra	id.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 'M367374:200529'

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