

Datasheet: MCA2056

Description:	MOUSE ANTI HUMAN CD143		
Specificity:	CD143		
Other names:	ACE		
Format:	S/N		
Product Type:	Monoclonal Antibody		
Clone:	2E2		
Isotype:	lgG1		
Quantity:	1 ml		

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					
	Immunohistology - Frozen					
	Immunohistology - Paraffin (1)	-			Neat - 1/20	
	ELISA	-				
	Immunoprecipitation			•		
	Western Blotting	-			1/50 - 1/100	
	Where this antibody has	not been	tested for	use in a particular teo	hnique this does not	
	necessarily exclude its u	cessarily exclude its use in such procedures. Suggested working dilutions are given as				
	a guide only. It is recommended that the user titrates the antibody for use in their own					
	system using appropriate negative/positive controls.					
	(1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.Sodium citrate buffer pH 6.0 is recommended for this purpose.					
Target Species	Human					
Species Cross Reactivity	Reacts with: Bovine, Guinea Pig, Rat, Cat, Pig, Monkey, Mouse, Dog, Rabbit 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	Tissue Culture Supernata	ant - liquio	d			

Preservative Stabilisers	0.09% Sodium Azide		
Immunogen	Denatured Human kidney CD143 (angiotensin converting enzyme).		
External Database Links	UniProt: <u>P12821</u> <u>Related reagents</u> Entrez Gene: <u>1636</u> ACE <u>Related reagents</u>		
Synonyms	DCP, DCP1		
RRID	AB_323343		
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse X63 - Ag8 - 653 myeloma cell line.		
Specificity	Mouse anti Human CD143 antibody, clone 2E2 recognizes human CD143, also know as angiotensin - converting enzyme (ACE). CD143 exists in two forms, a 170 kDa somatic form and a 90 kDa germinal form. The somatic form is expressed by endothelial cells (especially those of lung capillaries and arterioles), epithelial cells (especially in proximal renal tubules and small intestine), by some neuronal cells and variably by some macrophages and T lymphocytes. The germinal form is expressed by spermatozoa. Study of CD143 may be relevant to fertility (especially sperm-egg interactions), atherosclerosis and in drug targeting to the lung. This clone recognises denatured somatic form of ACE, binding to an epitope in the C domain, and has been reported to be active in western blotting (<u>Balyasnikova <i>et al.</i> 2003</u>).		
Histology Positive Control Tissue	Kidney (lung in rat studies)		
References	 Metzger, R. <i>et al.</i> (1999) Angiotensin-converting enzyme in non-neoplastic kidney diseases. <u>Kidney Int. 56 (4): 1442-54.</u> Balyasnikova, I.V. <i>et al.</i> (2003) Monoclonal antibodies to denatured ACE (CD143) broad species specificity, reactivity on paraffin sections and detection of subtle conformational changes in the C-terminal domain of ACE. <u>Tissue Antigens. 61 (1): 49- 62.</u> Manton, R.N. <i>et al.</i> (2016) Angiolymphoid hyperplasia with eosinophilia developing within a port wine stain. <u>J Cutan Pathol. 43 (1): 53-6.</u> Constantino, P.B. <i>et al.</i> (2017) Exercise attenuates dexamethasone-induced hypertension through an improvement of baroreflex activity independently of the renin- angiotensin system. <u>Steroids. 128: 147-54.</u> 		
Storage	Store at +4°C or at -20°C if preferred.		
	This product should be stored undiluted.		
	Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing		

	as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10055 available at: 10055: <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10055.pdf</u>
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

	Goat Anti Mouse IgG IgA IgM (STAR87) <u>Alk. Phos.</u> , <u>HRP</u>			
Goat Anti Mouse IgG (STAR77)		HRP		
	Rabbit Anti Mouse IgG (STAR12)	RPE		
	Rabbit Anti Mouse IgG (STAR8)	DyLight®800		
	Rabbit Anti Mouse IgG (STAR13)	HRP		
	Goat Anti Mouse IgG (STAR76)	RPE		
	Goat Anti Mouse IgG (STAR70)	<u>FITC</u>		
	Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP		
	Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>		
	Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®680,		
		DyLight®800, FITC, HRP		

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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		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

From March 15, 2021, we will no longer supply printed datasheets with our products. Look out for updates on how to access your digital version at bio-rad-antibodies.com 'M348413:190221'

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