Datasheet: MCA1334B BATCH NUMBER 158798

Description:	MOUSE ANTI RAT CD31:Biotin		
Specificity:	CD31		
Other names:	PECAM-1		
Format:	Biotin		
Product Type:	Monoclonal Antibody		
Clone:	TLD-3A12		
Isotype:	lgG1		
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	-			Neat	
	Functional Assays (1)			•		
	Where this antibody has	not been	tested for	use in a particular tec	hnique this does not	
	necessarily exclude its use in such procedures. Suggested working dilutions are giv					
	a guide only. It is recomr	mended th	at the us	er titrates the antibody	for use in their own	
	system using appropriate	e negative	/positive	controls.		
	(1) Bio-Rad recommen	d the use	of <u>MCA1</u>	<u>334EL</u> for use in fund	ctional studies	
Target Species	Rat					
Species Cross Reactivity	Reacts with: Rhesus Monkey, Pig 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 Biotin -	liquid			
Preparation	Purified IgG prepared by supernatant	affinity cł	nromatogi	raphy on Protein A fron	n tissue culture	
Buffer Solution	Phosphate buffered salir	ie				

Preservative Stabilisers	0.09% Sodium Azide		
	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		
Immunogen	Activated, Lewis rat derived microglial cells.		
External Database			
Links	UniProt:		
	Q3SWT0 Related reagents		
	Entrez Gene:		
	29583 Pecam1 Related reagents		
Synonyms	Pecam		
RRID	AB_566718		
Fusion Partners	Spleen cells from immunised BALB/c mouse were fused with cells of the mouse SP2 myeloma cell line.		
Specificity	Mouse anti Rat CD31 antibody, clone TLD-3A12 recognizes rat PECAM-1 (CD31), a 661 amino acid type 1 transmembrane protein expressed primarily on endothelial cells, platelets and leucocytes.		
	Clone TLD-3A12 has been shown to partially block the proliferative response of antigen- specific CD4+ T cells to antigen-presenting cells and relevant antigen (<u>Stevenson, K.S. <i>et</i></u> <u>al.2009</u>).		
	Mouse anti Rat CD31 antibody, clone TLD-3A12 is suitable for use in IHC on formalin-fixed paraffin-embedded sections pre-treated with 0.2M boric acid, pH7.0. (<u>Wilson et al. 2007</u>). Mouse anti Rat CD31, clone TLD-3A12 has been shown to be cross-reactive with endothelial cells derived from rhesus macaque (<u>Maclean et al. 2001</u>)		
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.		
References	 Williams, K.C. <i>et al.</i> (1996) PECAM-1 (CD31) expression in the central nervous system and its role in experimental allergic encephalomyelitis in the rat. <u>J Neurosci Res. 45 (6)</u>: <u>747-57.</u> Nakao, A. <i>et al.</i> (2003) Carbon monoxide inhalation protects rat intestinal grafts from ischemia/reperfusion injury. <u>Am J Pathol. 163: 1587-98.</u> Stevenson, K.S. <i>et al.</i> (2009) Isolation, characterization, and differentiation of thy1.1- sorted pancreatic adult progenitor cell populations. <u>Stem Cells Dev. 18 (10): 1389-98.</u> Ott, I. <i>et al.</i> (2005) Endothelial-like cells expanded from CD34+ blood cells improve left 		
	ventricular function after experimental myocardial infarction. <u>FASEB J. 19 (8): 992-4.</u> 5. Fujimoto, K.L. <i>et al.</i> (2007) An elastic, biodegradable cardiac patch induces contractile smooth muscle and improves cardiac remodeling and function in subacute myocardial		

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	 49. Huang, H.C. <i>et al.</i> (2021) Microbiota transplants from feces portal hypertension and portosystemic collaterals in cirrhotic ra (24): 2709-2728. 50. Cąkała-Jakimowicz, M. & Puzianowska-Kuznicka, M. (2022) the Lymph Node Response to Skin Infection with Saprophytic <i>Sepidermidis</i> <u>Biomedicines. 10 (5): 1021.</u> 51. Huang, H.C. <i>et al.</i> (2022) Effects of PCSK-9 Inhibition by A Biliary Cirrhotic Rats. Int J Mol Sci. 23 (13): 7378. 	s or gut content attenuated hts. <u>Clin Sci (Lond). 135</u> 2) Towards Understanding Staphylococcus
Storage	This product is shipped at ambient temperature. It is recommen-20°C on receipt. When thawed, aliquot the sample as needed short term use (up to 4 weeks) and store the remaining aliquot Avoid repeated freezing and thawing as this may denature the frost-free freezers is not recommended.	. Keep aliquots at 2-8°C for s at -20°C.
Guarantee	12 months from date of despatch	
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1334B 10041	
Regulatory	For research purposes only	

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:Biotin (MCA1209B)

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@bic	-rad.com	Email: antibody_sales_de@bio-rad.com

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Printed on 25 Apr 2024

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