# Datasheet: MCA1825T BATCH NUMBER 154562

Description:	RAT ANTI MOUSE CD34			
Specificity:	CD34			
Format:	Purified			
Product Type:	Monoclonal Antibody			
Clone:	MEC14.7			
lsotype:	lgG2a			
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	•			1/10 - 1/20	
	Immunohistology - Frozen			•		
	Immunohistology - Paraffin	-			1/20 - 1/200	
	ELISA			•		
	Immunoprecipitation	-			2ug/ml - 10ug/ml	
	Western Blotting					
	Where this antibody has necessarily exclude its us a guide only. It is recomn system using appropriate	se in such nended th	procedur at the use	es. Suggested workir titrates the antibody	ng dilutions are given as	
Target Species	Mouse					
Product Form	Purified IgG - liquid					
Preparation	Purified IgG prepared by supernatant	affinity ch	romatogr	aphy on Protein G fro	m tissue culture	
Buffer Solution	Phosphate buffered salin	е				
Preservative Stabilisers	0.09% Sodium Azide					
Carrier Free	Yes					

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	T-end.1, a pMT transformed endothelial cell line.
External Database Links	UniProt: <u>Q64314</u> <u>Related reagents</u> Entrez Gene: <u>12490</u> Cd34 <u>Related reagents</u>
RRID	AB_1101948
Specificity	<b>Rat anti Mouse CD34 antibody, clone MEC14.7</b> recognizes the murine CD34 cell surface antigen, which is expressed by endothelial cells and by haematopoietic stem cells. This antibody recognizes a neuraminidase sensitive epitope. As in the human system, CD34 antibodies in the mouse demonstrate slightly different staining patterns depending on their fine specificity. Rat anti Mouse CD34 antibody, clone MEC14.7 appears to recognize a subset of the stem cell population recognized by clone RAM34, and it is thought that this is due to differences in the epitope recognized by the two antibodies.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
References	<ol> <li>Winding, B. <i>et al.</i> (2002) Synthetic matrix metalloproteinase inhibitors inhibit growth of established breast cancer osteolytic lesions and prolong survival in mice. <u>Clin Cancer Res. 8 (6): 1932-9.</u></li> <li>Nguyen, L. <i>et al.</i> (2012) Spatial morphological and molecular differences within solid tumors may contribute to the failure of vascular disruptive agent treatments. <u>BMC Cancer. 12: 522.</u></li> <li>Morison, N.B. <i>et al.</i> (2007) The long-term actions of etonogestrel and levonorgestrel on decidualized and non-decidualized endometrium in a mouse model mimic some effects of progestogen-only contraceptives in women. <u>Reproduction. 133: 309-21.</u></li> <li>Chen, L. <i>et al.</i> (2010) Roles of tetrahydrobiopterin in promoting tumor angiogenesis. <u>Am J Pathol. 177: 2671-80.</u></li> <li>Ager, E.I. <i>et al.</i> (2010) Targeting the angiotensin II type 2 receptor (AT2R) in colorectal liver metastases. <u>Cancer Cell Int. 10: 19</u></li> <li>Chabot, S. <i>et al.</i> (2011) A novel antiangiogenic and vascular normalization therapy targeted against human CD160 receptor. <u>J Exp Med. 208: 973-86.</u></li> <li>Chen, J. <i>et al.</i> (2012) Transfusion of CXCR4-primed endothelial progenitor cells reduces cerebral ischemic damage and promotes repair in db/db diabetic mice. <u>PLoS One. 7 (11): e50105.</u></li> <li>Ouji, Y. &amp; Yoshikawa, M. (2016) Maintenance of Skin Epithelial Stem Cells by Wnt-3a In Vitro. <u>Methods Mol Biol. 1516: 279-88.</u></li> <li>Nguyen, L. <i>et al.</i> (2016) Vascular disruptive agent OXi4503 and anti-angiogenic agent</li> </ol>

	Sunitinib combination treatment prolong survival of mice with CRC liver metastasis. <u>BMC</u> Cancer. 16 (1): 533.			
	11. Vávrová, J. <i>et al.</i> (2012) Irradiated stem cells and ageing of the haematopoietic			
	system. Radiat Environ Biophys. 51 (2): 205-13.			
	12. DaCosta, P.L.N. et al. (2018) The kallikrein-Kinin system modulates the progression of			
	colorectal liver metastases in a mouse model. BMC Cancer. 18 (1): 382.			
	13. Danielyan, L. et al (2020) Cell motility and migration as determinants of stem cell			
	efficacy <u>EBioMedicine. 60:102989.</u>			
	14. Rackham, C.L. <i>et al.</i> (2013) Maintenance of islet morphology is beneficial for			
	transplantation outcome in diabetic mice. PLoS One. 8 (2): e57844.			
	15. Fruchon, S. et al. (2012) Involvement of the Syk-mTOR pathway in follicular			
	lymphoma cell invasion and angiogenesis. Leukemia. 26 (4): 795-805.			
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	12 months from date of despatch			
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1825T 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)	HRP			
Goat Anti Rat IgG (STAR69)	<u>FITC</u>			
Goat Anti Rat IgG (STAR73)	RPE			
Rabbit Anti Rat IgG (STAR21)	HRP			
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71	) DyLight®550, DyLight®650, DyLight®800			
Goat Anti Rat IgG (STAR131)	<u>Alk. Phos., Biotin</u>			
Recommended Negative Controls				

### RAT IgG2a NEGATIVE CONTROL (MCA1212)

#### **Recommended Useful Reagents**

ANTIGEN 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	То	
America	Fax: +1 919 878 3751 Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50	find a			
	Email: antibody_sales_us@bio-rad.com Er		Email: antibody_sales_uk@bio-rad.com		Email: antibody_sales_de@bio-rad.com		
batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets							
'M365769:200529'							

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