

Datasheet: MCA1825PE

Description:	RAT ANTI MOUSE CD34:RPE
Specificity:	CD34
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	MEC14.7
Isotype:	IgG2a
Quantity:	100 TESTS

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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			Neat - 1/5

Where this antibody has not been tested for use in a particular technique this does not necessarily 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.

Target Species	Mouse		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1.0 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared by affinity chromatography on Protein G from		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1%	Bovine Serum Albumin	
	5%	Sucrose	
Immunogen	T-end.1, a pMT transformed endothelial cell line.		

External Database Links

UniProt:

[Q64314](#)

[Related reagents](#)

Entrez Gene:

Specificity	Rat anti Mouse CD34 antibody, clone MEC14.7 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 10^6 cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/B).
References	1. Winding, B. <i>et al.</i> (2002) Synthetic matrix metalloproteinase inhibitors inhibit growth of established breast cancer osteolytic lesions and prolong survival in mice. Clin Cancer Res. 8 (6): 1932-9. 2. 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. BMC Cancer. 12: 522. 3. 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. Reproduction. 133: 309-21. 4. Chen, L. <i>et al.</i> (2010) Roles of tetrahydrobiopterin in promoting tumor angiogenesis. Am J Pathol. 177: 2671-80. 5. Ager, E.I. <i>et al.</i> (2010) Targeting the angiotensin II type 2 receptor (AT2R) in colorectal liver metastases. Cancer Cell Int. 10: 19 6. Chabot, S. <i>et al.</i> (2011) A novel antiangiogenic and vascular normalization therapy targeted against human CD160 receptor. J Exp Med. 208: 973-86. 7. Chen, J. <i>et al.</i> (2011) Circulating endothelial progenitor cells and cellular membrane microparticles in db/db diabetic mouse: possible implications in cerebral ischemic damage. Am J Physiol Endocrinol Metab. 2011 Jul;301(1):E62-71. 8. 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. PLoS One. 7 (11): e50105. 9. Ouji Y & Yoshikawa M (2016) Maintenance of Skin Epithelial Stem Cells by Wnt-3a <i>In Vitro</i>. Methods Mol Biol. Apr 1. [Epub ahead of print] 10. Nguyen, L. <i>et al.</i> (2016) Vascular disruptive agent OXi4503 and anti-angiogenic agent Sunitinib combination treatment prolong survival of mice with CRC liver metastasis. BMC 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. DaCostaP, L.N. <i>et al.</i> (2018) The kallikrein-Kinin system modulates the progression of colorectal liver metastases in a mouse model. BMC Cancer. 18 (1): 382.
Storage	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	12 months from date of reconstitution.

Health And Safety Information Material Safety Datasheet documentation #10075 available at:
10075: <https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:RPE \(MCA1212PE\)](#)

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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