Datasheet: MCA2411PE BATCH NUMBER 1710

Description:	MOUSE ANTI DOG CD34:RPE
Specificity:	CD34
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	1H6
lsotype:	lgG1
Quantity:	100 TESTS

Product Details

Applications	This product has been reported to work in the following applications. This information 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	
	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 g a guide only. It is recommended that the user titrates the antibody for use in their system using appropriate negative/positive controls.					
Target Species	Dog					
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - Iyophilized					
Reconstitution	Reconstitute with 1 ml distilled water					
Max Ex/Em	Fluorophore	Excitation Ma	x (nm)	Emission Max (nm)		
	RPE 488nm laser	496	. ,	578		
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant					
Buffer Solution	Phosphate buffered saline					
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum / 5% Sucrose	Albumin				

Immunogen	Canine CD34 fusion protein.	
External Database		
Links	UniProt:	
	Q28270 Related reagents	
	Entrez Gene:	
	415130 CD34 Related reagents	
RRID	AB_609594	
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS-1/FOX-NY myeloma cell line.	
Specificity	Mouse anti dog CD34 antibody, clone 1H6 recognizes the canine homologue of CD3 a glycosylated type 1 transmembrane protein of approximately 110 kDa (<u>McSweeney e</u> <u>al. 1998</u>) expressed on the cell suface of endothelial cells and haematopoietic stem ce Mouse anti dog CD34 antibody, clone 1H6 is a key marker of canine hematopoietic	
	progenitor cells and is reported for use in CD34+ enrichment assays, (<u>Goerner <i>et al.</i></u> <u>2001</u>) and (<u>Horn <i>et al.</i> 2004</u>).	
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.	
References	 Goerner, M. <i>et al.</i> (1999) The use of granulocyte colony-stimulating factor during retroviral transduction on fibronectin fragment CH-296 enhances gene transfer into hematopoietic repopulating cells in dogs. <u>Blood. 94 (7): 2287-92.</u> Bhattacharya, V. <i>et al.</i> (2000) Enhanced endothelialization and microvessel formation in polyester grafts seeded with CD34(+) bone marrow cells. <u>Blood. 95 (2): 581-5.</u> Goerner, M. <i>et al.</i> (2001) Sustained multilineage gene persistence and expression in dogs transplanted with CD34(+) marrow cells transduced by RD114-pseudotype oncoretrovirus vectors. <u>Blood. 98 (7): 2065-70.</u> 	
	 4. Georges, G. <i>et al.</i> (2001) Engraftment of DLA-haploidentical marrow with ex vivo expanded, retrovirally transduced cytotoxic T lymphocytes. <u>Blood. 98:3447-55</u>. 5. Horn, P.A. <i>et al.</i> (2004) Efficient lentiviral gene transfer to canine repopulating cells using an overnight transduction protocol. <u>Blood. 103 (10): 3710-6</u>. 6. Avallone, G. <i>et al.</i> (2007) The spectrum of canine cutaneous perivascular wall tumors: morphologic, phenotypic and clinical characterization. <u>Vet Pathol. 44 (5): 607-20</u>. 7. Palmieri, C. <i>et al.</i> (2013) Use of electron microscopy to classify canine perivascular wall tumors. <u>Vet Pathol. 50 (2): 226-33</u>. 8. Bearden, R.N. <i>et al.</i> (2017) <i>In-vitro</i> characterization of canine multipotent stromal cells isolated from synovium, bone marrow, and adipose tissue: a donor-matched comparative study. <u>Stem Cell Res Ther. 8 (1): 218</u>. 9. Trindade, A.B. <i>et al.</i> (2017) Mesenchymal-like stem cells in canine ovary show high differentiation potential. <u>Cell Prolif. Oct 08 [Epub ahead of print]</u>. 10. Lee, S.H. <i>et al.</i> (2016) Impact of local injection of brain-derived neurotrophic factor-expressing mesenchymal stromal cells (MSCs) combined with intravenous MSC delivery in a canine model of chronic spinal cord injury. <u>Cytotherapy. Oct 28 [Epub ahead of print]</u>. 	

	 Muir, P. <i>et al.</i> (2016) Autologous Bone Marrow-Derived Mesenchymal Stem Cells Modulate Molecular Markers of Inflammation in Dogs with Cruciate Ligament Rupture. <u>PLoS One. 11 (8): e0159095.</u> Rajawat, Y.S. <i>et al.</i> (2021) <i>In Vivo</i> Gene Therapy for Canine SCID-X1 Using Cocal- Pseudotyped Lentiviral Vector. <u>Hum Gene Ther. 32 (1-2): 113-27.</u> Grudzien, M. <i>et al.</i> (2021) A newly established canine NK-type cell line and its cytotoxic properties. <u>Vet Comp Oncol. 19 (3): 567-77.</u> Tongu, E.A.O. <i>et al.</i> (2021) Allogenic mesenchymal stem cell-conditioned medium does not affect sperm parameters and mitigates early endometrial inflammatory responses in mares. <u>Theriogenology. 169: 1-8.</u> Jaensch, S. <i>et al.</i> (2022) Clinicopathologic and immunophenotypic features in dogs with presumptive large granular lymphocyte leukaemia <u>Australian Veterinary Journal.</u> [Epub ahead of print].
Further Reading	1. McSweeney, P. <i>et al.</i> (1996) Canine CD34: cloning of the cDNA and evaluation of an antiserum to recombinant protein. <u>Blood. 88:1992-2003.</u>
Storage	Prior to reconstitution store at +4°C. After reconstitution store at +4°C. DO NOT FREEZE. This product is photosensitive and should be protected from light. 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 #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA2411PE 20487
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

North & South	Tel: +1 800 265 7376
America	Fax: +1 919 878 3751
	Email: antibody_sales_us@bio

76 Worldwide 751 ales_us@bio-rad.com Tel: +44 (0)1865 852 700 Europe Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 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 'M375482:210104'

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