

Datasheet: MCA1926A488T BATCH NUMBER 1804

Description:	MOUSE ANTI HUMAN CD166:Alexa Fluor® 488
Specificity:	CD166
Other names:	ALCAM
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	3A6
lsotype:	lgG1
Quantity:	25 TESTS/0.25ml

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-</u> rad-antibodies.com/protocols				
		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. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.				
Target Species	Human				
Species Cross Reactivity	Reacts with: Sheep 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 Alexa Fluor® 488 - liquid				
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)		
	Alexa Fluor®488	495	519		
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant				
Buffer Solution	Phosphate buffered sa	lline			

Preservative Stabilisers	0.09% Sodium Azide1% Bovine Serum Albumin	
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml	
Immunogen	Human thymic epithelial cells.	
External Database Links	UniProt: Q13740 Related reagents Entrez Gene: 214 ALCAM Related reagents	
Synonyms	MEMD	
RRID	AB_2223889	
Fusion Partners	Spleen cells from immunised mice were fused with cells of the P3X63 Ag8 myelor line.	na cell
Specificity	Mouse anti Human CD166 antibody, clone 3A6 recognizes the 100 kDa adhesi molecule CD166, also known as ALCAM. CD166 is a member of the Ig superfami expressed on activated T-cells, B cells and other cells including thymic epithelial of fibroblasts, keratinocytes and neurons. CD6 has been identified as a receptor for a (<u>Skonier <i>et al.</i> 1996</u>).	on ly and is cells, ALCAM
	Mouse anti Human CD166 antibody, clone 3A6 is reported to cross-react with CD ovine tissues and provides a useful tool for the identification and characterization mesenchymal stem cells in conjunction with <u>CD44</u> which is expressed by this cell and the hematopoietic cell marker <u>CD45</u> which is not expressed on mesenchymal cells (<u>Sanjurjo-Rodríguez <i>et al.</i> 2017</u>).	166 on of ovine lineage stem
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.	
References	 Yeh, S.P. <i>et al.</i> (2005) Mesenchymal stem cells can be easily isolated from bon marrow of patients with various haematological malignancies but the surface antige expression may be changed after prolonged <i>ex vivo</i> culture. Leukemia. 19: 1505- 2. Patel, D. D. <i>et al.</i> (1997) CD166 Workshop: Tissue distribution and functional at of antibodies reactive for CD166, a ligand for CD6. In Leukocyte Typing IV. Kishim <i>et al.</i> eds Garland publishing Inc. New York p. 461-4. Tondreau, T. <i>et al.</i> (2008) Gene expression pattern of functional neuronal cells of from human bone marrow mesenchymal stromal cells. <u>BMC Genomics. 9:166.</u> Wang, D. <i>et al.</i> (2004) Proteomic profiling of bone marrow mesenchymal stem of upon transforming growth factor beta1 stimulation. <u>J Biol Chem. 279 (42): 43725-55</u> Green, L.R. <i>et al.</i> (2011) Cooperative role for tetraspanins in adhesin-mediated attachment of bacterial species to human epithelial cells. <u>Infect Immun. 79 (6): 224</u> 	e gens 7. nalysis noto, T. derived cells 34. 41-9.

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	from a hypophosphatasia natient. Gene Ther, 17 (4): 494 502
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	derived fibroblast cells differentiate into osteoblasts and form bone in vivo. Connect Tissue
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	Cells into Schwann-Like Cells, Biomolecules, 10 (12) Dec 10 [Epub ahead of print].
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. This product is photosensitive and
	should be protected from light.
	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
Acknowledgements	This product is provided under an intellectual property licence from Life Technologies
	Corporation. The transfer of this product is contingent on the buyer using the purchase
	product solely in research, excluding contract research or any fee for service research.
	and the buyer must not sell or otherwise transfer this product or its components for (a)
	diagnostic, therapeutic or prophylactic purposes: (b) testing, analysis or screening
	services or information in return for compensation on a per-test basis: (c) manufacturing
	or quality assurance or quality control, or (d) resale, whether or not resold for use in
	or quarty according of quarty control, or (a) resaid, whether of not resold for use in

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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1926A488T 10041		
Regulatory	For research purposes only		

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 488 (MCA928A488)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

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	o-rad.com	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 M365898:200529'

Printed on 12 Mar 2024

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