

Datasheet: MCA1926FT BATCH NUMBER 166461

Description:	MOUSE ANTI HUMAN CD166:FITC		
Specificity:	CD166		
Other names:	ALCAM		
Format:	FITC		
Product Type:	Monoclonal Antibody		
Clone:	3A6		
lsotype:	lgG1		
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	•		Neat		
	Where this product has necessarily exclude its a guide only. It is recor system using appropria	use in such procedu mmended that the us	res. Suggested workin er titrates the product f	g dilutions are given as		
Target Species	Human					
Species Cross	Reacts with: Sheep					
Reactivity	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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid					
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)			
	FITC	490	525			
Preparation	Purified IgG prepared supernatant	by affinity chromatog	raphy on Protein A fror	n tissue culture		

Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin		
Approx. Protein Concentrations	IgG concentration 0.1mg/ml		
Immunogen	Human thymic epithelial cells.		
External Database Links	UniProt: Q13740 Related reagents Entrez Gene: <u>214</u> ALCAM <u>Related reagents</u>		
Synonyms	MEMD		
RRID	AB_2223888		
Fusion Partners	Spleen cells from immunized mice were fused with cells of the P3X63 Ag8 myeloma cell line.		
Specificity	Mouse anti Human CD166 antibody, clone 3A6 recognizes the 100 kDa adhesion molecule CD166, also known as ALCAM. CD166 is a member of the Ig superfamily and is expressed on activated T-cells, B cells and other cells including thymic epithelial cells, fibroblasts, keratinocytes and neurons. CD6 has been identified as a receptor for ALCAM (<u>Skonier <i>et al.</i> 1996</u>).		
	Mouse anti Human CD166 antibody, clone 3A6 is reported to cross-react with CD166 on ovine tissues and provides a useful tool for the identification and characterization of ovine mesenchymal stem cells in conjunction with <u>CD44</u> which is expressed by this cell lineage and the hematopoietic cell marker <u>CD45</u> which is not expressed on mesenchymal stem cells (<u>Sanjurjo-Rodríguez <i>et al.</i> 2017</u>).		
Flow Cytometry	Use $10\mu I$ of the suggested working dilution to label 10^6 cells in $100\mu I$		
References	1. Patel, D. D. et al. (1997) CD166 Workshop: Tissue distribution and functional analysis		

	 vivo and <i>in vitro</i> study. <u>Calcif Tissue Int. 84 (2): 138-45.</u> 6. Agha-Hosseini, F. <i>et al.</i> (2010) <i>In vitro</i> isolation of stem cells derived from human dental pulp. <u>Clin Transplant. 24: E23-8.</u> 7. Bhattacharya, S. <i>et al.</i> (2010) Toponome imaging system: in situ protein network mapping in normal and cancerous colon from the same patient reveals more than five-thousand cancer specific protein clusters and their subcellular annotation by using a three symbol code. <u>J Proteome Res. 9: 6112-25.</u> 8. Katsube, Y. <i>et al.</i> (2010) Restoration of cellular function of mesenchymal stem cells from a hypophosphatasia patient. <u>Gene Ther. 17 (4): 494-502.</u> 9. Brune, J.C. <i>et al.</i> (2011) Mesenchymal stromal cells from primary osteosarcoma are non-malignant and strikingly similar to their bone marrow counterparts. <u>Int J Cancer. 129 (2): 319-30.</u> 10. 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): 2241-9.</u> 11. Ali, H. <i>et al.</i> (2015) Multi-Lineage Differentiation of Human Umbilical Cord Wharton's Jelly Mesenchymal Stromal Cells Mediates Changes in the Expression Profile of Stemness Markers. <u>PLoS One. 10 (4): e0122465.</u> 12. Fridriksdottir, A.J. <i>et al.</i> (2015) Propagation of oestrogen receptor-positive and oestrogen-responsive normal human breast cells in culture. <u>Nat Commun. 6: 8786.</u> 13. Holmannova, D. <i>et al.</i> (2017) Effects of conventional CPB and mini-CPB on neutrophils CD162, CD166 and CD195 expression. <u>Perfusion. 32 (2): 141-50.</u>
	14. Prins, H.J. <i>et al.</i> (2016) Bone Regeneration Using the Freshly Isolated Autologous
	Stromal Vascular Fraction of Adipose Tissue in Combination With Calcium Phosphate
	Ceramics. <u>Stem Cells Transl Med. 5 (10): 1362-1374.</u> 15. Chen, F. <i>et al.</i> (2018) Bone morphogenetic protein 7-transduced human dermal-
	derived fibroblast cells differentiate into osteoblasts and form bone in vivo. Connect Tissue
	 <u>Res. 59 (3): 223-232.</u> 16. Juan, C.H. <i>et al.</i> (2020) <i>In Vitro</i> Differentiation of Human Placenta-Derived Multipotent Cells into Schwann-Like Cells. <u>Biomolecules. 10 (12) Dec 10 [Epub ahead of print].</u> 17. Hidalgo, L. <i>et al.</i> (2023) Switchable CAR T cell strategy against osteosarcoma. <u>Cancer Immunol Immunother. 72 (8): 2623-33.</u>
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.
	Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.
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/MCA1926FT 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

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-rac	d.com	Email: antibody_sales_uk@bio-ra	id.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 'M422268:230906'

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