

Datasheet: MCA1926A647

Description:	MOUSE ANTI HUMAN CD166:Alexa Fluor® 647		
Specificity:	CD166		
Other names:	ALCAM		
Format:	ALEXA FLUOR® 647		
Product Type:	Monoclonal Antibody		
Clone:	3A6		
Isotype:	lgG1		
Quantity:	100 TESTS/1ml		

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 product 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 product for use in their own system using appropriate negative/positive controls.

Target Species	Human			
Species Cross	Reacts with: Sheep	р		
Reactivity	reactivity is derived	ctivity and working condit d from testing within our l cations from the originato	aboratories, peer-re	viewed publications
Product Form	Purified IgG conjug	gated to Alexa Fluor® 64	7 - liquid	
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm))
	Alexa Fluor®647	650	665	
Preparation	Purified IgG prepares supernatant	red by affinity chromatog	raphy on Protein A f	rom tissue culture

Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% 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_566563	
Fusion Partners	Spleen cells from immunised mice were fused with cells of the P3X63 Ag8 myelomaline.	a cell
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 expressed on activated T-cells, B cells and other cells including thymic epithelial ce fibroblasts, keratinocytes and neurons. CD6 has been identified as a receptor for Al (Skonier et al. 1996).	and is
	Mouse anti Human CD166 antibody, clone 3A6 is reported to cross-react with CD16 ovine tissues and provides a useful tool for the identification and characterization of mesenchymal stem cells in conjunction with CD44 which is expressed by this cell lin and the hematopoietic cell marker CD45 which is not expressed on mesenchymal scells (Sanjurjo-Rodríguez et al. 2017).	f ovine neage
Flow Cytometry	Use 10μl of the suggested working dilution to label 10 ⁶ cells in 100μl	
References	1. Patel, D. D. <i>et al.</i> (1997) CD166 Workshop: Tissue distribution and functional and of antibodies reactive for CD166, a ligand for CD6. In Leukocyte Typing IV. Kishimo <i>et al.</i> eds Garland publishing Inc. New York p. 461-4. 2. Wang, D. <i>et al.</i> (2004) Proteomic profiling of bone marrow mesenchymal stem ceupon transforming growth factor beta1 stimulation. J Biol Chem. 279 (42): 43725-343. Yeh, S.P. <i>et al.</i> (2005) Mesenchymal stem cells can be easily isolated from bone marrow of patients with various haematological malignancies but the surface antige expression may be changed after prolonged <i>ex vivo</i> culture. Leukemia. 19: 1505-7. 4. Tondreau, T. <i>et al.</i> (2008) Gene expression pattern of functional neuronal cells defrom human bone marrow mesenchymal stromal cells. BMC Genomics. 9:166. 5. Srouji, S. <i>et al.</i> (2009) The Schneiderian membrane contains osteoprogenitor cel <i>vivo</i> and <i>in vitro</i> study. Calcif Tissue Int. 84 (2): 138-45.	ells 4. ens erived

- 6. Agha-Hosseini, F. *et al.* (2010) *In vitro* isolation of stem cells derived from human dental pulp. Clin Transplant. 24: E23-8.
- 7. Bhattacharya, S. *et al.* (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. J Proteome Res. 9: 6112-25.
- 8. Katsube, Y. *et al.* (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. *et al.* (2011) Mesenchymal stromal cells from primary osteosarcoma are non-malignant and strikingly similar to their bone marrow counterparts. <u>Int J Cancer. 129</u> (2): 319-30.
- 10. Green, L.R. *et al.* (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. *et al.* (2015) Multi-Lineage Differentiation of Human Umbilical Cord Wharton's Jelly Mesenchymal Stromal Cells Mediates Changes in the Expression Profile of Stemness Markers. PLoS One. 10 (4): e0122465.
- 12. Fridriksdottir, A.J. *et al.* (2015) Propagation of oestrogen receptor-positive and oestrogen-responsive normal human breast cells in culture. <u>Nat Commun. 6: 8786.</u>
- 13. Holmannova, D. *et al.* (2017) Effects of conventional CPB and mini-CPB on neutrophils CD162, CD166 and CD195 expression. Perfusion. 32 (2): 141-50.
- 14. Prins, H.J. *et al.* (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.</u> 5 (10): 1362-1374.
- 15. Chen, F. *et al.* (2018) Bone morphogenetic protein 7-transduced human dermalderived fibroblast cells differentiate into osteoblasts and form bone *in vivo*. Connect Tissue Res. 59 (3): 223-232.
- 16. Juan, C.H. *et al.* (2020) *In Vitro* Differentiation of Human Placenta-Derived Multipotent Cells into Schwann-Like Cells. <u>Biomolecules</u>. 10 (12) <u>Dec 10 [Epub ahead of print]</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

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 research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad

CA 92008 USA or outlicensing@thermofisher.com

Health And Safety Information

Material Safety Datasheet documentation #10041 available at:

https://www.bio-rad-antibodies.com/SDS/MCA1926A647

10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL: Alexa Fluor® 647 (MCA928A647)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

America

North & South Tel: +1 800 265 7376

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-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 'M412091:221109'

Printed on 06 Sep 2023

© 2023 Bio-Rad Laboratories Inc | Legal | Imprint