

## Datasheet: MCA1926A488T

<b>Description:</b>	MOUSE ANTI HUMAN CD166:Alexa Fluor® 488
<b>Specificity:</b>	CD166
<b>Other names:</b>	ALCAM
<b>Format:</b>	ALEXA FLUOR® 488
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	3A6
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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 [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

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 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 saline

<b>Preservative Stabilisers</b>	0.09% sodium azide (NaN <sub>3</sub> ) 1% bovine serum albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml
<b>Immunogen</b>	Human thymic epithelial cells.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q13740</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">214</a>    ALCAM    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	MEMD
<b>RRID</b>	AB_2223889
<b>Fusion Partners</b>	Spleen cells from immunized mice were fused with cells of the P3X63 Ag8 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human CD166 antibody, clone 3A6</b> 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 (<a href="#">Skonier <i>et al.</i> 1996</a>).</p> <p>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 <a href="#">CD44</a> which is expressed by this cell lineage and the hematopoietic cell marker <a href="#">CD45</a> which is not expressed on mesenchymal stem cells (<a href="#">Sanjurjo-Rodríguez <i>et al.</i> 2017</a>).</p>
<b>Flow Cytometry</b>	Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl
<b>References</b>	<ol style="list-style-type: none"> <li>Patel, D. D. <i>et al.</i> (1997) CD166 Workshop: Tissue distribution and functional analysis of antibodies reactive for CD166, a ligand for CD6. In Leukocyte Typing IV. Kishimoto, T. <i>et al.</i> eds Garland publishing Inc. New York p. 461-4.</li> <li>Wang, D. <i>et al.</i> (2004) Proteomic profiling of bone marrow mesenchymal stem cells upon transforming growth factor beta1 stimulation. <a href="#">J Biol Chem. 279 (42): 43725-34.</a></li> <li>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 antigens expression may be changed after prolonged <i>ex vivo</i> culture. <a href="#">Leukemia. 19: 1505-7.</a></li> <li>Tondreau, T. <i>et al.</i> (2008) Gene expression pattern of functional neuronal cells derived from human bone marrow mesenchymal stromal cells. <a href="#">BMC Genomics. 9:166.</a></li> <li>Srouji, S. <i>et al.</i> (2009) The Schneiderian membrane contains osteoprogenitor cells: <i>in vivo</i> and <i>in vitro</i> study. <a href="#">Calcif Tissue Int. 84 (2): 138-45.</a></li> </ol>

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16. Juan, C.H. *et al.* (2020) *In Vitro* Differentiation of Human Placenta-Derived Multipotent Cells into Schwann-Like Cells. [Biomolecules. 10 \(12\) Dec 10 \[Epub ahead of print\].](#)
17. Hidalgo, L. *et al.* (2023) Switchable CAR T cell strategy against osteosarcoma. [Cancer Immunol Immunother. 72 \(8\): 2623-33.](#)
18. Kohler, K.T. *et al.* (2024) Oncogene activated human breast luminal progenitors contribute basally located myoepithelial cells. [Breast Cancer Res. 26 \(1\): 183.](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information**      Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA1926A488T>  
10041

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**Regulatory**                      For research purposes only

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## 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

**America**              Fax: +1 919 878 3751

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