

## Datasheet: MCA1926F

<b>Description:</b>	MOUSE ANTI HUMAN CD166:FITC
<b>Specificity:</b>	CD166
<b>Other names:</b>	ALCAM
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	3A6
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 mg

### 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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

#### Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

#### 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 0.1mg/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_323189
<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>

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. [Gene Ther. 17 \(4\): 494-502.](#)
9. Brune, J.C. *et al.* (2011) Mesenchymal stromal cells from primary osteosarcoma are non-malignant and strikingly similar to their bone marrow counterparts. [Int J Cancer. 129 \(2\): 319-30.](#)
10. Green, L.R. *et al.* (2011) Cooperative role for tetraspanins in adhesion-mediated attachment of bacterial species to human epithelial cells. [Infect Immun. 79 \(6\): 2241-9.](#)
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. [Nat Commun. 6: 8786.](#)
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. [Stem Cells Transl Med. 5 \(10\): 1362-1374.](#)
15. Chen, F. *et al.* (2018) Bone morphogenetic protein 7-transduced human dermal-derived 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. [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.](#)

---

**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/MCA1926F>  
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

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

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto: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](https://bio-rad-antibodies.com/datasheets)

'M437851:250319'

**Printed on 19 Mar 2025**

---

© 2025 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)