

## Datasheet: MCA1926F

**BATCH NUMBER 0714**

<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 antibody 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 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 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

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide 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 immunised 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 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. 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>2. 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>3. 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>4. 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> </ol>

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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 \[Epub ahead of print\].](#)

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**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.

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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/MCA1926F>  
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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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'M365901:200529'

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