

Datasheet: MCA1926A488

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| Description: | MOUSE ANTI HUMAN CD166:Alexa Fluor® 488 |
| Specificity: | CD166 |
| Other names: | ALCAM |
| Format: | ALEXA FLUOR® 488 |
| Product Type: | Monoclonal Antibody |
| Clone: | 3A6 |
| Isotype: | IgG1 |
| 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 |

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

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| Target Species | Human | | |
| Species Cross Reactivity | Reacts with: Sheep N.B. Antibody reactivity and working conditions may vary between species. | | |
| Product Form | Purified IgG conjugated to Alexa Fluor® 488 - liquid | | |
| Max Ex/Em | Fluorophore Alexa Fluor®488 | Excitation Max (nm) 495 | Emission Max (nm) 519 |
| Preparation | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant | | |
| Buffer Solution | Phosphate buffered saline | | |
| Preservative | 0.09% Sodium Azide | | |
| Stabilisers | 1% Bovine Serum Albumin | | |
| Approx. Protein Concentrations | IgG concentration 0.05 mg/ml | | |
| Immunogen | Human thymic epithelial cells. | | |
| External Database Links | UniProt: | | |

Entrez Gene:

[214](#) ALCAM [Related reagents](#)

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| Synonyms | MEMD |
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| Fusion Partners | Spleen cells from immunised mice were fused with cells of the P3X63 Ag8 myeloma cell line. |
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| Specificity | <p>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 (Skonier et al. 1996).</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 CD44 which is expressed by this cell lineage and the hematopoietic cell marker CD45 which is not expressed on mesenchymal stem cells (Sanjurjo-Rodríguez et al. 2017).</p> |
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| Flow Cytometry | Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. |
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| References | <ol style="list-style-type: none">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. Leukemia. 19: 1505-7.2. 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. 461-4.3. Tondreau, T. <i>et al.</i> (2008) Gene expression pattern of functional neuronal cells derived from human bone marrow mesenchymal stromal cells. BMC Genomics. 9:166.4. Wang, D. <i>et al.</i> (2004) Proteomic profiling of bone marrow mesenchymal stem cells upon transforming growth factor beta1 stimulation. J Biol Chem. 279 (42): 43725-34.5. Green, L.R. <i>et al.</i> (2011) Cooperative role for tetraspanins in adhesion-mediated attachment of bacterial species to human epithelial cells. Infect Immun. 79 (6): 2241-9.6. Agha-Hosseini, F. <i>et al.</i> (2010) <i>In vitro</i> isolation of stem cells derived from human dental pulp. Clin Transplant. 24: E23-8.7. 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. J Proteome Res. 9: 6112-25.8. 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. PLoS One. 10 (4): e0122465.9. Holmannova D <i>et al.</i> (2016) Effects of conventional CPB and mini-CPB on neutrophils CD162, CD166 and CD195 expression. Perfusion. Sep 13. pii: 0267659116669586. [Epub ahead of print]10. 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. Stem Cells Transl Med. 5 (10): 1362-1374.11. Srouji, S. <i>et al.</i> (2009) The Schneiderian membrane contains osteoprogenitor cells: <i>in vivo</i> and <i>in vitro</i> study. Calcif Tissue Int. 84 (2): 138-45.12. Katsube, Y. <i>et al.</i> (2010) Restoration of cellular function of mesenchymal stem cells from a hypophosphatasia patient. Gene Ther. 17 (4): 494-502. |
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13. Fridriksdottir, A.J. *et al.* (2015) Propagation of oestrogen receptor-positive and oestrogen-responsive normal human breast cells in culture. [Nat Commun. 6: 8786.](#)
14. 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.](#)

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.

Shelf Life 18 months from date of despatch.

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Health And Safety Information Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA928A488\)](#)

Recommended Useful Reagents

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

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

North & South America Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: 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

Europe Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50
Email: antibody_sales_de@bio-rad.com

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