

Datasheet: MCA2219GA

Description: MOUSE ANTI SHEEP CD		
Specificity:	CD44	
Other names:	H-CAM, PGP-1	
Format:	Purified	
<b>Product Type:</b>	e: Monoclonal Antibody	
Clone:	25.32	
Isotype:	lgG1	
Quantity:	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 <a href="https://www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	<b>Suggested Dilution</b>
Flow Cytometry	•			1/50 - 1/100
Immunohistology - Frozen	•			
Immunohistology - Paraffin (1)			•	
ELISA			•	
Immunoprecipitation	•			
Western Blotting			•	

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.

(1) This clone has been reported to react with paraffin-embedded material following alcohol fixation. Please refer to reference Sainte-Marie, G. et al for information about this protocol.

Target Species	Sheep
Species Cross Reactivity	Reacts with: Bovine, Goat, Human  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 - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN <sub>3</sub> )
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Ovine efferent lymphatic duct lymphocytes
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line.
Specificity	<b>Mouse anti Sheep CD44 antibody, clone 25.32</b> recognises the ovine CD44 cell surface antigen, a ~95 kDa glycoprotein expressed by most leucocytes and a subpopulation of thymocytes. In immunohistochemical staining, this antibody labels several cell types including medullary thymocytes, kupffer cells, kidney tubular epithelial cells and gut
	smooth muscle cells. The expression of CD44 is upregulated upon cell activation.  Mouse anti Sheep CD44 antibody, clone 25.32 is a valuable ragent for the isolation and characterization of ovine mesenchymal stem cells along with CD29 and CD166 which are also expressed on this cell type, in contrast to hematopoietic sell markers including CD45 which is negative on this mesenchymal stem sell population (Sanjurjo-Rodríguez et al.
Elow Cutomotry	Mouse anti Sheep CD44 antibody, clone 25.32 is a valuable ragent for the isolation and characterization of ovine mesenchymal stem cells along with CD29 and CD166 which are also expressed on this cell type, in contrast to hematopoietic sell markers including CD45 which is negative on this mesenchymal stem sell population (Sanjurjo-Rodríguez et al. 2017).
Flow Cytometry References	Mouse anti Sheep CD44 antibody, clone 25.32 is a valuable ragent for the isolation and characterization of ovine mesenchymal stem cells along with CD29 and CD166 which are also expressed on this cell type, in contrast to hematopoietic sell markers including CD45 which is negative on this mesenchymal stem sell population (Sanjurjo-Rodríguez et al.

lung and immune development in sheep: potential mechanisms for programming asthma and allergy. J Physiol. 597 (16): 4251-62.

- 7. López-Fernández, A. *et al.* (2020) Effect of Allogeneic Cell-Based Tissue-Engineered Treatments in a Sheep Osteonecrosis Model. Tissue Eng Part A. 26 (17-18): 993-1004.
- 8. Savy, V. *et al.* (2021) Effect of Embryo Aggregation on *In Vitro* Development of Adipose-Derived Mesenchymal Stem Cell-Derived Bovine Clones. <u>Cell Reprogram. 23 (5):</u> 277-289.
- 9. Zhang, P. *et al.* (2021) Differences in the biological properties of mesenchymal stromal cells from traumatic temporomandibular joint fibrous and bony ankylosis: a comparative study <u>Animal Cells and Systems.</u>: 1-16.
- 10. Castillo, M.G. *et al.* (2023) Promoting early neovascularization by allotransplanted adipose-derived Muse cells in an ovine model of acute myocardial infarction. <u>PLoS One.</u> 18 (1): e0277442.

#### **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.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2219GA">https://www.bio-rad-antibodies.com/SDS/MCA2219GA</a> 10040
Regulatory	For research purposes only

# Related Products

## **Recommended Secondary Antibodies**

Rabbit Anti Mouse IgG (STAR12...)

Rabbit Anti Mouse IgG (STAR13...)

Rabbit Anti Mouse IgG (STAR9...)

FITC

Goat Anti Mouse IgG (H/L) (STAR117...) FITC

### **Recommended Negative Controls**

### MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

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

 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 'M413351:221121'

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