

Datasheet: MCA2219GA

BATCH NUMBER 0215

Description:	MOUSE ANTI SHEEP CD44
Specificity:	CD44
Other names:	H-CAM, PGP-1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	25.32
Isotype:	IgG1
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 www.bio-rad-antibodies.com/protocols.

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

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.

(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 ₃)
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	<p>Mouse anti Sheep CD44 antibody, clone 25.32 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.</p> <p>Mouse anti Sheep CD44 antibody, clone 25.32 is a valuable reagent 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).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1 x 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> Aleksandersen, M. <i>et al.</i> (1990) Distribution of lymphocyte subsets in the large intestinal lymphoid follicles of lambs. Immunology. 70 (3): 391-7. Perry, K. <i>et al.</i> (2010) Hyaluronan (HA) content, the ratio of HA fragments and the expression of CD44 in the ovine cervix vary with the stage of the oestrous cycle. Reproduction. 140:133-41. Stevenson, L.M. <i>et al.</i> (2001) Expression of cell surface adhesion molecules by peripheral blood eosinophils during <i>Trichostrongylus colubriformis</i> infection in sheep. Immunol Cell Biol. 79 (3): 240-4. Witherden, D.A. <i>et al.</i> (1995) Antigen-independent maturation of CD2, CD11a/CD18, CD44, and CD58 expression on thymic emigrants in fetal and postnatal sheep. Dev Immunol. 4:199-209 Sanjurjo-Rodríguez, C. <i>et al.</i> (2017) Ovine Mesenchymal Stromal Cells: Morphologic, Phenotypic and Functional Characterization for Osteochondral Tissue Engineering. PLoS One. 12 (1): e0171231.

6. Wooldridge, A.L. *et al.* (2019) Maternal allergic asthma during pregnancy alters fetal lung and immune development in sheep: potential mechanisms for programming asthma and allergy. [J Physiol. 597 \(16\): 4251-62.](#)

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. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2219GA>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

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

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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