

Datasheet: MCA2219F

BATCH NUMBER 1703

Description:	MOUSE ANTI SHEEP CD44:FITC
Specificity:	CD44
Other names:	H-CAM, PGP-1
Format:	FITC
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	▪			Neat - 1/10

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

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 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 G from tissue culture supernatant

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Ovine efferent lymphatic duct lymphocytes
RRID	AB_323830
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 cell markers including CD45 which is negative on this mesenchymal stem cell population (Sanjurjo-Rodríguez <i>et al.</i> 2017).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 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. Wooldridge, A.L. <i>et al.</i> (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. 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.

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/MCA2219F 10041
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

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

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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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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