

Datasheet: MCA896GA

Description:	MOUSE ANTI SHEEP CD45
Specificity:	CD45
Other names:	LCA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	VPM18
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	▪			1/25 - 1/200
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
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.

Target Species

Sheep

Species Cross Reactivity

Reacts with: Bovine

Does not react with: 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 G from tissue culture

supernatant

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% Sodium Azide (NaN₃)

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen Sheep T lymphocytes.

RRID AB_1220450

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS0 myeloma cell line.

Specificity **Mouse anti Sheep CD45, clone VPM18** recognizes the ovine homologue of human CD45 otherwise known as LCA (leucocyte common antigen), a type I transmembrane glycoprotein and member of the protein-tyrosine phosphatase (PTP) family, expressed at high levels on all nucleated cells of haematopoietic origin, and which exists in several isoforms generated by the alternative splicing.

CD45 is a signal transduction protein vital for T and B cell antigen receptor-mediated activation, and is involved in many aspects of cellular processes, including growth, differentiation and oncogenic transformation. CD45 associates with many cell surface antigens, including CD2, CD3, CD4, CD26 and CD90.

Mouse anti Sheep CD45, clone VPM18 recognizes all isoforms of the ovine CD45 molecule.

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells or 100ul whole blood

References

1. Hopkins, J. & Dutia, B.M. (1990) Monoclonal antibodies to the sheep analogues of human CD45 (leucocyte common antigen), MHC class I and CD5. Differential expression after lymphocyte activation in vivo. [Vet Immunol Immunopathol. 24 \(4\): 331-46.](#)
2. Pastoret P-P., *et al.* (1998) Immunology of cattle (in Handbook of Veterbrate Immunology) Chapter XIII, p445
3. Darzi, S. *et al.* (2016) Tissue response to collagen containing polypropylene meshes in an ovine vaginal repair model. [Acta Biomater. 39: 114-23.](#)

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: https://www.bio-rad-antibodies.com/SDS/MCA896GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

Recommended Useful Reagents

[MOUSE ANTI SHEEP CD45R \(MCA2221GA\)](#)
[MOUSE ANTI SHEEP CD45R:RPE \(MCA2221PE\)](#)
[MOUSE ANTI BOVINE CD14:FITC \(MCA2678F\)](#)
[MOUSE ANTI BOVINE CD14 \(MCA2678GA\)](#)

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