

Datasheet: MCA920GA

BATCH NUMBER 166570

Description:	MOUSE ANTI SHEEP CD14
Specificity:	CD14
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	VPM65
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 - 1/250
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
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.

Target Species	Sheep
Species Cross Reactivity	<p>Reacts with: Bovine, Goat, Water Buffalo</p> <p>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.</p>
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 macrophages
External Database Links	UniProt: Q06AV9 Related reagents
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS0 myeloma cell line
Specificity	<p>Mouse Anti Sheep CD14 antibody, clone VPM65 recognizes Ovine CD14, a GPI-anchored 55 kDa membrane glycoprotein and monocyte/macrophage differentiation antigen belonging to the lipopolysaccharide receptor family. Ovine CD14 is expressed by monocytes, macrophages and peripheral blood granulocytes.</p> <p>CD14 acts as a receptor for the potent bacterial endotoxin, lipopolysaccharide (LPS), facilitated by LPS-binding protein (LBP). The binding of LPS to CD14 results in cell activation, the release of cytokines and the inflammatory response, which has been shown to upregulate the cell surface expression of adhesion molecules.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells or cells or 100ul whole blood
References	<ol style="list-style-type: none"> Gupta, V.K. <i>et al.</i> (1996) Identification of the sheep homologue of the monocyte cell surface molecule--CD14. Vet Immunol Immunopathol. 51 (1-2): 89-99. Berthon, P. and Hopkins, J. (1996) Ruminant cluster CD14. Vet Immunol Immunopathol. 52: 245-8. Vilmos, P., <i>et. al</i> (1996) Phylogenetically conserved epitopes of leukocyte antigens Vet Immunol Immunopath. 52: 415-426 Spaniel-Borowski, K. <i>et al.</i> (1997) Immunolocalization of CD18-positive cells in the bovine ovary. J Reprod Fertil. 111: 197-205. Ryan, S. <i>et al.</i> (2000) Infection of dendritic cells by the Maedi-Visna lentivirus. J Virol. 74: 10096-103. González, L. <i>et al.</i> (2001) Detection of immune system cells in paraffin wax-embedded ovine tissues. J Comp Pathol. 125: 41-7. Sladek, Z. <i>et al.</i> (2001) Leukocytes in bovine virgin mammary gland: flow cytometry imaging during development and resolution of induced influx Vet Med Czech, 46: 190-98 Andréoletti, O. <i>et al.</i> (2002) Phenotyping of protein-prion (PrPsc)-accumulating cells in lymphoid and neural tissues of naturally scrapie-affected sheep by double-labeling immunohistochemistry. J Histochem Cytochem. 50: 1357-70. Chan, S.S. <i>et al.</i> (2002) Generation and characterization of ovine dendritic cells derived

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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/MCA920GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
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

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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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