

Datasheet: MCA5939GA

BATCH NUMBER 165174

Description:	MOUSE ANTI SHEEP CD14
Specificity:	CD14
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	VPM66
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	<p>Reacts with: Bovine, 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 G 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	<p>UniProt:</p> <p>Q06AV9 Related reagents</p> <p>Q95122 Related reagents</p> <p>Q1W2K5 Related reagents</p> <p>Entrez Gene:</p> <p>281048 CD14 Related reagents</p>
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NSO myeloma cell line.
Specificity	<p>Mouse anti Sheep CD14 monoclonal antibody, clone VPM66 recognises 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 (Hopkins <i>et. al.</i> 1996).</p> <p>CD14 acts as a receptor for the potent bacterial endotoxin, lipopolysaccharide (LPS), facilitated by LPS-binding protein. The binding of LPS to CD14 results in cell activation, the release of cytokines and the inflammatory response, and has been shown to upregulate the cell surface expression of adhesion molecules.</p> <p>Clone VPM66 has been shown to recognise CD14 in other domestic ruminant species including Water Buffalo (<i>Bubalus bubalis</i>) (Vimos <i>et. al.</i> 1996) and domestic cattle (Hopkins <i>et. al.</i> 1996). In addition to clone VPM66, clones VPM65 and VPM67 are also available.</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"> 1. Akesson, C.P. <i>et al.</i> (2008) Phenotypic characterisation of intestinal dendritic cells in sheep. Dev Comp Immunol. 32 (7): 837-49. 2. 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. 3. Vilmos, P. <i>et al.</i> (1996) Phylogenetically conserved epitopes of leukocyte antigens. Vet Immunol Immunopathol. 52 (4): 415-26.

4. Hopkins, J. & Gupta, V.K. (1996) Identification of three myeloid-specific differentiation antigens in sheep. [Vet Immunol Immunopathol. 52 \(4\): 329-39.](#)

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/MCA5939GA>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
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](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Recommended Useful Reagents

[MOUSE ANTI SHEEP CD45 \(MCA896GA\)](#)
[MOUSE ANTI SHEEP CD25 \(MCA2218GA\)](#)
[MOUSE ANTI SHEEP CD25:FITC \(MCA2218F\)](#)
[MOUSE ANTI SHEEP CD45 \(MCA2220GA\)](#)
[MOUSE ANTI SHEEP CD45:RPE \(MCA2220PE\)](#)

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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
'M381336:210512'

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