

## Datasheet: MCA5939GA

**BATCH NUMBER 0313**

<b>Description:</b>	MOUSE ANTI SHEEP CD14
<b>Specificity:</b>	CD14
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	VPM66
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Sheep
<b>Species Cross Reactivity</b>	<p>Reacts with: Bovine, Water Buffalo</p> <p><b>N.B.</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>
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Ovine macrophages.
<b>External Database Links</b>	<p><b>UniProt:</b></p> <p><a href="#">Q06AV9</a>      <a href="#">Related reagents</a></p> <p><a href="#">Q95122</a>      <a href="#">Related reagents</a></p> <p><a href="#">Q1W2K5</a>      <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">281048</a>    CD14    <a href="#">Related reagents</a></p>
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NSO myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Sheep CD14 monoclonal antibody, clone VPM66</b> 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 (<a href="#">Hopkins <i>et. al.</i> 1996</a>).</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>) (<a href="#">Vimos <i>et. al.</i> 1996</a>) and domestic cattle (<a href="#">Hopkins <i>et. al.</i> 1996</a>). In addition to clone VPM66, clones <a href="#">VPM65</a> and <a href="#">VPM67</a> are also available.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells or cells or 100ul whole blood.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Akesson, C.P. <i>et al.</i> (2008) Phenotypic characterisation of intestinal dendritic cells in sheep. <a href="#">Dev Comp Immunol. 32 (7): 837-49.</a></li> <li>2. Gupta, V.K. <i>et al.</i> (1996) Identification of the sheep homologue of the monocyte cell surface molecule--CD14. <a href="#">Vet Immunol Immunopathol. 51 (1-2): 89-99.</a></li> <li>3. Vilmos, P. <i>et al.</i> (1996) Phylogenetically conserved epitopes of leukocyte antigens. <a href="#">Vet Immunol Immunopathol. 52 (4): 415-26.</a></li> </ol>

**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA5939GA>  
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**Regulatory** For research purposes only

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## 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](#)  
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](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

### 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](https://www.bio-rad-antibodies.com/datasheets)

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