

## Datasheet: MCA5957GA

<b>Description:</b>	MOUSE ANTI PIG CSF1R
<b>Specificity:</b>	CSF1R
<b>Other names:</b>	CD115, CSF-1R
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	ROS8G11
<b>Isotype:</b>	IgG2a
<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)	▪			1/25 - 1/200
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			
Immunofluorescence	▪			

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.

(1) Results maybe enhanced using membrane permeabilisation. Membrane permeabilization is required for this application. The use of Leucoperm (Product Code [BUF09](#)) is recommended for this purpose.

### Target Species

Pig

### Species Cross Reactivity

Reacts with: Dog

Does not react with: Human, Horse, Sheep, Bovine

**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.

<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A 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>	Recombinant pCSF1R-Ig / Fc fusion protein
<b>Fusion Partners</b>	Spleen cells from immunized Balb/c mice were fused with cells of the Ba/F3 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Pig CSF1R, clone ROS8G11</b>, recognizes the porcine homologue of human CSF1R, also known as CSF-1R, M-CSF receptor, CD115 and c-fms. CSF1R (CD115) is a single pass type 1 transmembrane protein belonging to the type III protein kinase family and is the cell surface receptor for both CSF1 and IL-34. Evidence from comparative sequence analysis across a range of vertebrate species indicates that CSF1 and IL-34 interact with distinct regions of CSF1R (<a href="#">Garceau <i>et al.</i> 2010</a>).</p> <p>CSF1R cell surface expression appears to be one of the earliest events in macrophage lineage cell commitment and CSF1R expression appears primarily limited to macrophages (<a href="#">Garceau <i>et al.</i> 2010</a>). The development of the monoclonal antibody ROS8G11 specifically recognizing porcine CSF1R provides an antibody that will assist with research into porcine monocyte and macrophage biology (<a href="#">Moffat <i>et al.</i> 2014</a>). Clone ROS8G11 has been tested for cross reactivity in a limited number of species, and while it does not recognize human or equine CSFR1, it has been shown to recognize canine CD115.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul
<b>References</b>	<ol style="list-style-type: none"> <li>1. Fernández-Caballero, T. <i>et al.</i> (2018) Phenotypic and functional characterization of porcine bone marrow monocyte subsets. <a href="#">Dev Comp Immunol. 81: 95-104.</a></li> <li>2. Haach, V. <i>et al.</i> (2023) A polyvalent virosomal influenza vaccine induces broad cellular and humoral immunity in pigs. <a href="#">Virology J. 20 (1): 181.</a></li> <li>3. Álvarez, B. <i>et al.</i> (2023) Porcine Macrophage Markers and Populations: An Update. <a href="#">Cells. 12 (16): 2103.</a></li> </ol>
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>1. Kapetanovic, R. <i>et al.</i> (2013) The impact of breed and tissue compartment on the response of pig macrophages to lipopolysaccharide. <a href="#">BMC Genomics 14: 581.</a></li> <li>2. Garceau, V. <i>et al.</i> (2010) Pivotal Advance: Avian colony-stimulating factor 1 (CSF-1), interleukin-34 (IL-34), and CSF-1 receptor genes and gene products. <a href="#">J Leukoc Biol. 87: 753-64.</a></li> </ol>

3. Gow, D.J. *et al.* (2013) Cloning and expression of feline colony stimulating factor receptor (CSF-1R) and analysis of the species specificity of stimulation by colony stimulating factor-1 (CSF-1) and interleukin-34 (IL-34). [Cytokine. 61 \(2\): 630-8.](#)

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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.

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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/MCA5957GA>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®405](#), [DyLight®488](#),  
[DyLight®800](#), [FITC](#), [HRP](#)

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

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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