

Datasheet: MCA5957APC

BATCH NUMBER 170103

Description:	MOUSE ANTI PIG CSF1R:APC
Specificity:	CSF1R
Other names:	CD115, CSF-1R
Format:	APC
Product Type:	Monoclonal Antibody
Clone:	ROS8G11
Isotype:	IgG2a
Quantity:	100 TESTS

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)	▪			Neat

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.

(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.

Product Form

Purified IgG conjugated to Allophycocyanin (APC) - lyophilized

Reconstitution

Reconstitute with 1.0 ml distilled water

Care should be taken during reconstitution as the protein may appear as a film at the

bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	APC	650	661
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) 1% Bovine Serum Albumin 5% Sucrose		
Immunogen	Recombinant pCSF1R-Ig / Fc fusion protein		
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of the Ba/F3 myeloma cell line.		
Specificity	<p>Mouse anti Pig CSF1R, clone ROS8G11, 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 (Garceau <i>et al.</i> 2010).</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 (Garceau <i>et al.</i> 2010). 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 (Moffat <i>et al.</i> 2014). 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>		
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul		
References	<ol style="list-style-type: none">1. Fernández-Caballero, T. <i>et al.</i> (2018) Phenotypic and functional characterization of porcine bone marrow monocyte subsets. Dev Comp Immunol. 81: 95-104.2. Haach, V. <i>et al.</i> (2023) A polyvalent virosomal influenza vaccine induces broad cellular and humoral immunity in pigs. Virology J. 20 (1): 181.3. Álvarez, B. <i>et al.</i> (2023) Porcine Macrophage Markers and Populations: An Update. Cells. 12 (16): 2103.		
Further Reading	<ol style="list-style-type: none">1. Kapetanovic, R. <i>et al.</i> (2013) The impact of breed and tissue compartment on the response of pig macrophages to lipopolysaccharide. BMC Genomics 14: 581.2. 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. J Leukoc Biol. 87: 753-64.		

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.](#)

Storage	Prior to reconstitution store at +4°C. After reconstitution store at +4°C. DO NOT FREEZE. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA5957APC 20487
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:APC \(MCA929APC\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: 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	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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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