

Datasheet: MCA5957APC

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	▪			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.

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) - lyophilised

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 et al. 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 et al. 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 et al. 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	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.
Further Reading	<p>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.</p> <p>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.</p> <p>3. Gow, D.J. <i>et al.</i> (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.</p>
Storage	<p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at +4°C.</p> <p>DO NOT FREEZE. This product is photosensitive and should be protected from light.</p> <p>Should this product contain a precipitate we recommend microcentrifugation before use.</p>

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #20487 available at:
20487: <https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

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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

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