

Datasheet: MCA5956A488

BATCH NUMBER 0614

Description:	MOUSE ANTI CHICKEN CSF1R:Alexa Fluor® 488
Specificity:	CSF1R
Other names:	CD115
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	ROS-AV170
Isotype:	IgG1
Quantity:	100 TESTS/1ml

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 - 1/10
Immunofluorescence	▪			

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 Chicken

Species Cross Reactivity Reacts with: Grey partridge, Guinea Fowl, Quail
Does not react with: Goose, Duck, Turkey, Mouse, Rat
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 Alexa Fluor® 488 - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®488	495	519

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 (NaN₃)
1% Bovine Serum Albumin

Approx. Protein Concentrations IgG concentration 0.05 mg/ml

Immunogen Purified ChCSF1R-Fc fusion protein

Fusion Partners Spleen cells from immunized Balb/c mice were fused with cells of the Sp2/0-Ag14 myeloma cell line

Specificity **Mouse anti Chicken CSF1R, clone ROS-AV170**, recognizes the chicken homologue of human CSF1R, also known as CD115, CSF-1R, M-CSF receptor and c-fms. CSF1R 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](#)).

CSF1R cell surface expression appears to be one of the earliest events in macrophage lineage cells ([Garceau *et al.* 2010](#)). Mouse anti Chicken CSF1R, clone ROS-AV170 is a monoclonal antibody that has been generated to recognize chicken CSF1R. Clone ROS-AV170 has been shown to recognize the CSF1R antigen in some, but not all closely related avian species.

Mouse anti Chicken CSF1R, clone ROS-AV170 is an excellent marker for chicken macrophages.

Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul

References

1. Garcia-Morales, C. *et al.* (2014) Production and characterisation of a monoclonal antibody that recognises the chicken CSF1 receptor and confirms that expression is restricted to macrophage-lineage cells. [Dev Comp Immunol 42:278-85.](#)
2. Garceau, V. *et al.* (2015) The development and maintenance of the mononuclear phagocyte system of the chick is controlled by signals from the macrophage colony-stimulating factor receptor. [BMC Biol. 13:12.](#)

Further Reading

1. Garceau, V. *et al.* (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.](#)

Storage Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the

antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

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Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA5956A488>
10041

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

[MOUSE ANTI CHICKEN CD14 \(MCA5926GA\)](#)

[MOUSE ANTI CHICKEN CD25 \(MCA5925GA\)](#)

[MOUSE ANTI GUINEA FOWL Bu-1a/b \(MCA5958GA\)](#)

[MOUSE ANTI CHICKEN MONOCYTES/MACROPHAGES \(MCA5770\)](#)

[MOUSE ANTI CHICKEN CD45:RPE \(MCA2413PE\)](#)

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