

Datasheet: MCA5956A488

**BATCH NUMBER 158533**

|                      |   |
|----------------------|---|
| <b>Description:</b>  | MOUSE ANTI CHICKEN CSF1R:Alexa Fluor® 488 |
| <b>Specificity:</b>  | CSF1R                                     |
| <b>Other names:</b>  | CD115                                     |
| <b>Format:</b>       | ALEXA FLUOR® 488                          |
| <b>Product Type:</b> | Monoclonal Antibody                       |
| <b>Clone:</b>        | ROS-AV170                                 |
| <b>Isotype:</b>      | IgG1                                      |
| <b>Quantity:</b>     | 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](http://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<br>Does not react with:Goose, Duck, Quail, Turkey, Mouse, Rat<br><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. |                   |                     |                   |                 |     |     |  |  |
| Product Form             | Purified IgG conjugated to Alexa Fluor® 488 - liquid   |                   |                     |                   |                 |     |     |  |  |
| Max Ex/Em                | <table><tr><th>Fluorophore</th><th>Excitation Max (nm)</th><th>Emission Max (nm)</th></tr><tr><td>Alexa Fluor®488</td><td>495</td><td>519</td></tr></table>  | Fluorophore       | Excitation Max (nm) | Emission Max (nm) | Alexa Fluor®488 | 495 | 519 |  |  |
| 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

|                                       |   |
|---------------------------------------|---|
| <b>Buffer Solution</b>                | Phosphate buffered saline   |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide (NaN <sub>3</sub> )<br>1% Bovine Serum Albumin   |
| <b>Approx. Protein Concentrations</b> | IgG concentration 0.05 mg/ml  |
| <b>Immunogen</b>                      | Purified ChCSF1R-Fc fusion protein  |
| <b>Fusion Partners</b>                | Spleen cells from immunized Balb/c mice were fused with cells of the Sp2/0-Ag14 myeloma cell line   |
| <b>Specificity</b>                    | <p><b>Mouse anti Chicken CSF1R, clone ROS-AV170</b>, 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 (<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 cells (<a href="#">Garceau <i>et al.</i> 2010</a>). 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.</p> <p>Mouse anti Chicken CSF1R, clone ROS-AV170 is an excellent marker for chicken macrophages.</p> |
| <b>Flow Cytometry</b>                 | Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul  |
| <b>References</b>                     | <ol style="list-style-type: none"><li>1. Garceau, V. <i>et al.</i> (2015) The development and maintenance of the mononuclear phagocyte system of the chick is controlled by signals from the macrophage colony-stimulating factor receptor. <a href="#">BMC Biol. 13:12.</a></li><li>2. Nagy, N. <i>et al.</i> (2016) Avian dendritic cells: Phenotype and ontogeny in lymphoid organs. <a href="#">Dev Comp Immunol. 58: 47-59.</a></li><li>3. Härtle, S. <i>et al.</i> (2024) Delineation of chicken immune markers in the era of omics and multicolor flow cytometry <a href="#">Frontiers in Veterinary Science. 23 May [Epub ahead of print].</a></li></ol>  |
| <b>Further Reading</b>                | <ol style="list-style-type: none"><li>1. 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>   |
| <b>Storage</b>                        | 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. This product is photosensitive and should be protected from light.

|                                      |   |
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| <b>Guarantee</b>                     | 12 months from date of despatch   |
| <b>Acknowledgements</b>              | This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchased product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or <a href="mailto:outlicensing@thermofisher.com">outlicensing@thermofisher.com</a> |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA5956A488">https://www.bio-rad-antibodies.com/SDS/MCA5956A488</a><br>10041   |
| <b>Regulatory</b>                    | For research purposes only  |

## Related Products

### Recommended Useful Reagents

[MOUSE ANTI CHICKEN CD14 \(MCA5926GA\)](#)  
[MOUSE ANTI CHICKEN CD25 \(MCA5925GA\)](#)  
[MOUSE ANTI CHICKEN MONOCYTES/MACROPHAGES \(MCA5770\)](#)  
[MOUSE ANTI CHICKEN CD45:RPE \(MCA2413PE\)](#)

|                                  |   |                  |   |               |   |
|----------------------------------|---|------------------|---|---------------|---|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
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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://bio-rad-antibodies.com/datasheets)  
'M385787:210513'

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