

## Datasheet: MCA4659A488

<b>Description:</b>	HAMSTER ANTI MOUSE KLRG1:Alexa Fluor® 488
<b>Specificity:</b>	KLRG1
<b>Format:</b>	ALEXA FLUOR® 488
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	2F1
<b>Isotype:</b>	IgG
<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

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.

<b>Target Species</b>	Mouse						
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor 488 - liquid						
<b>Max Ex/Em</b>	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>Alexa Fluor®488</td> <td>495</td> <td>519</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	Alexa Fluor®488	495	519
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Alexa Fluor®488	495	519					
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
<b>Buffer Solution</b>	Phosphate buffered saline						
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin						
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05mg/ml						
<b>Immunogen</b>	Activated NK (A-LAK) cells from B6 (H-2b) mice.						

<b>External Database Links</b>	<b>UniProt:</b> <a href="#">O88713</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">50928</a> Klrp1 <a href="#">Related reagents</a>
<b>Synonyms</b>	Mafa
<b>RRID</b>	AB_10851886
<b>Fusion Partners</b>	Popliteal lymph node cells from immunized Syrian hamsters were fused with cells of the P3X63Ag8.653 plasmacytoma cell line.
<b>Specificity</b>	<b>Hamster anti Mouse KLRG1 antibody, clone 2F1</b> recognizes mouse KLRG1 (killer cell lectin-like receptor G1), the mouse homolog of the rat mast cell function-associated antigen (MAFA). It is expressed by activated CD8 T-cells and by a large proportion of natural killer (NK) cells. It is not found in the spleen, thymus, lymph nodes, testis, brain or kidney and is not expressed on mast cell lines, bone-marrow-derived mast cells or peritoneal mast cells. T-cells expressing KLRG1 have greatly reduced proliferation potential, but are not limited in their capacity to perform immediate effector cell functions, such as the secretion of gamma interferon. KLRG1 plays an inhibitory role on NK cells and T-cells by binding to their ligands.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.  The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR ( <a href="#">BUF041A/B</a> ).
<b>References</b>	<ol style="list-style-type: none"> <li>Hanke, T. <i>et al.</i> (1998) 2F1 antigen, the mouse homolog of the rat "mast cell function-associated antigen", is a lectin-like type II transmembrane receptor expressed by natural killer cells. <a href="#">Eur J Immunol. 28 (12): 4409-17.</a></li> <li>Rosshart, S. <i>et al.</i> (2008) Interaction of KLRG1 with E-cadherin: new functional and structural insights. <a href="#">Eur J Immunol. 38 (12): 3354-64.</a></li> <li>Beyersdorf, N. <i>et al.</i> (2007) Characterization of mouse CD4 T cell subsets defined by expression of KLRG1. <a href="#">Eur J Immunol. 37 (12): 3445-54.</a></li> </ol>
<b>Storage</b>	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.
<b>Guarantee</b>	18 months from date of despatch.
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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 [outlicensing@thermofisher.com](mailto:outlicensing@thermofisher.com)

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**Health And Safety Information**      Material Safety Datasheet documentation #10041 available at:  
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory**                      For research purposes only

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## Related Products

### Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA2356A488\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 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 Fax: +44 (0)1865 852 739 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 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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'M361358:200212'

**Printed on 10 Feb 2021**

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