

## Datasheet: MCA1450A488

<b>Description:</b>	MOUSE ANTI HUMAN CD119:Alexa Fluor® 488
<b>Specificity:</b>	CD119
<b>Other names:</b>	IFN GAMMA RECEPTOR
<b>Format:</b>	ALEXA FLUOR® 488
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	BB1E2
<b>Isotype:</b>	IgG2a
<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 antibody 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 antibody for use in their own system using appropriate negative/positive controls.

#### Target Species

Human

#### Species Cross Reactivity

Reacts with: 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 Alexa Fluor® 488 - liquid

#### Max Ex/Em

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

#### Preparation

Purified IgG prepared by ion exchange chromatography

#### Buffer Solution

Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.09% Sodium Azide 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml
<b>Immunogen</b>	Fusion protein of the extracellular part of the human interferon-gamma receptor (AA: Ala17-Gly245) conjugated to 11 AA of the c-myc proto-oncogene (for affinity purification).
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P15260</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3459</a> IFNGR1    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_324736
<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the Sp2/0-Ag14 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human CD119 antibody, clone BB1E2</b> recognizes the human gamma-interferon receptor, also known as CD119. CD119 is expressed by monocytes, and very weakly by resting peripheral blood lymphocytes.</p> <p>Mouse anti Human CD119 antibody, clone BB1E2 recognizes a single protein band of ~43 kDa in western blotting under non-reducing conditions against protein comprising the glycosylated extracellular domain of the human interferon-gamma receptor fused to c-myc, and a MW of 27kDa against a recombinant protein corresponding to the non-glycosylated domain fused to c-myc.</p> <p>Mouse anti Human CD119 antibody, clone BB1E2 does not neutralize biological activity of interferon gamma.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Entrican G <i>et al.</i> (2002) Gamma interferon fails to induce expression of indoleamine 2,3-dioxygenase and does not control the growth of <i>Chlamydomphila abortus</i> in BeWo trophoblast cells. <a href="#">Infect Immun. 70 (5): 2690-3.</a></li> <li>2. Sopp, P. <i>et al.</i> (2007) Cross-reactivity of mAbs to human CD antigens with cells from cattle. <a href="#">Vet Immunol Immunopathol. 119: 106-14.</a></li> <li>3. López-Herrera, G. <i>et al.</i> (2004) Severe combined immunodeficiency syndrome associated with colonic stenosis. <a href="#">Arch Med Res. 35: 348-58.</a></li> <li>4. Garibay-Escobar, A. <i>et al.</i> (2003) Integrated measurements by flow cytometry of the cytokines IL-2, IFN-gamma, IL-12, TNF-alpha and functional evaluation of their receptors in human blood. <a href="#">J Immunol Methods. 280: 73-88.</a></li> <li>5. Jankovicova, K. <i>et al.</i> (2012) Interferon gamma receptor expression on granulocytes of cardiac surgical patients is modulated differently by the type of cardiopulmonary bypass</li> </ol>

used. [Perfusion. 27: 49-55.](#)

6. Diaz-Romero, J. *et al.* (2005) Immunophenotypic analysis of human articular chondrocytes: changes in surface markers associated with cell expansion in monolayer culture. [J Cell Physiol. 202: 731-42.](#)

7. Ghaemmaghami, A.M. *et al.* (2002) The proteolytic activity of the major dust mite allergen Der p 1 conditions dendritic cells to produce less interleukin-12: allergen-induced Th2 bias determined at the dendritic cell level. [Clin Exp Allergy. 32: 1468-75.](#)

8. Yim, J.H. *et al.* (2003) The role of interferon regulatory factor-1 and interferon regulatory factor-2 in IFN-gamma growth inhibition of human breast carcinoma cell lines. [J Interferon Cytokine Res. 23: 501-11.](#)

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**Further Reading** 1. Michiels, L. *et al.* (1998) The soluble extracellular portion of the human interferon-gamma receptor is a valid substitute for evaluating binding characteristics and for neutralizing the biological activity of this cytokine. [Int J Biochem Cell Biol. 30: 505-16.](#)

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**Storage** Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. 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.

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**Guarantee** 12 months from date of despatch

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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

[MOUSE IgG2a NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA929A488\)](#)

## Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

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