

## Datasheet: MCA1450T

<b>Description:</b>	MOUSE ANTI HUMAN CD119
<b>Specificity:</b>	CD119
<b>Other names:</b>	IFN GAMMA RECEPTOR
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	BB1E2
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	25 µg

## 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	▪			1ug/ml - 10ug/ml
Immunohistology - Frozen (1)	▪			1ug/ml - 10ug/ml
Immunohistology - Paraffin		▪		
ELISA	▪			1ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			1ug/ml

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.

**(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Bovine <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by ion exchange chromatography
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Approx. Protein</b>	IgG concentration 1.0 mg/ml

## Concentrations

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**Immunogen** 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).

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## External Database Links

### UniProt:

[P15260](#) [Related reagents](#)

### Entrez Gene:

[3459](#) IFNGR1 [Related reagents](#)

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

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**Specificity** **Mouse anti Human CD119 antibody, clone BB1E2** recognizes the human gamma-interferon receptor, also known as CD119. CD119 is expressed by monocytes, and very weakly by resting peripheral blood lymphocytes.

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.

Mouse anti Human CD119 antibody, clone BB1E2 does not neutralize biological activity of interferon gamma.

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**Flow Cytometry** Use 1ug to label 10<sup>6</sup> cells in 100ul.

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## References

1. Entrican G *et al.* (2002) Gamma interferon fails to induce expression of indoleamine 2,3-dioxygenase and does not control the growth of *Chlamydomphila abortus* in BeWo trophoblast cells. [Infect Immun. 70 \(5\): 2690-3.](#)
2. Sopp, P. *et al.* (2007) Cross-reactivity of mAbs to human CD antigens with cells from cattle. [Vet Immunol Immunopathol. 119: 106-14.](#)
3. López-Herrera, G. *et al.* (2004) Severe combined immunodeficiency syndrome associated with colonic stenosis. [Arch Med Res. 35: 348-58.](#)
4. Garibay-Escobar, A. *et al.* (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. [J Immunol Methods. 280: 73-88.](#)
5. Jankovicova, K. *et al.* (2012) Interferon gamma receptor expression on granulocytes of cardiac surgical patients is modulated differently by the type of cardiopulmonary bypass 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. Garibay-Escobar, A. *et al.* (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. [J Immunol Methods. 280: 73-88.](#)
8. 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.](#)
9. 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.](#)

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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. 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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**Shelf Life** 18 months from date of despatch.

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@549](#),  
[DyLight@649](#), [DyLight@680](#), [DyLight@800](#),  
[FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Human Anti Mouse IgG2a (HCA037...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

<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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