

Datasheet: MCA1450A488T

Description:	MOUSE ANTI HUMAN CD119:Alexa Fluor® 488
Specificity:	CD119
Other names:	IFN GAMMA RECEPTOR
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	BB1E2
Isotype:	IgG2a
Quantity:	25 TESTS/0.25ml

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

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.		
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		
Preservative Stabilisers	0.09% Sodium Azide		
	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml		
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).		

**External Database
Links**

UniProt:

[P15260](#)

[Related reagents](#)

Entrez Gene:

[3459](#)

IFNGR1

[Related reagents](#)

Fusion Partners

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

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.

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

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 *Chlamydomyphila 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. 23: 501-11.](#)

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.](#)

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.
Shelf Life	18 months from date of despatch.
Acknowledgements	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 purchase 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
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

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

Recommended Useful Reagents

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

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

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