

Datasheet: MCA2290A647T

**BATCH NUMBER 153395**

<b>Description:</b>	MOUSE ANTI HUMAN CD102:Alexa Fluor® 647
<b>Specificity:</b>	CD102
<b>Other names:</b>	ICAM-2
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CBRIC2/2
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/10

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		
Product Form	Purified IgG conjugated to Alexa Fluor® 647- liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665
Preparation	Purified IgG prepared by affinity chromatography on Protein G from supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein	IgG concentration 0.05 mg/ml		

## Concentrations

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Immunogen	Transfected COS cells expressing ICAM-2 cDNA.
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## External Database Links

### UniProt:

[P13598](#)

[Related reagents](#)

### Entrez Gene:

[3384](#)

ICAM2

[Related reagents](#)

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RRID	AB_1100544
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Fusion Partners	Cells from immunised BALB/c mice were fused with cells of the Murine P3X63Ag.653 myeloma cell line.
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Specificity	<b>Mouse anti Human CD102 antibody, clone CBRIC2/2</b> recognizes human CD102, also known as intercellular adhesion molecule-2 (ICAM-2). CD102 is a glycosylated cell surface protein that is broadly expressed on most leucocytes and is strongly expressed by endothelial cells. CD102 interacts with the CD11a/CD18 (LFA-1). CD102 may play a role in lymphocyte re-circulation and T-cell activation ( <a href="#">Yamashita <i>et al.</i> 2008</a> ).
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Mouse anti Human CD102 antibody, clone CBRIC2/2 is reported to inhibit interactions between CD102 and LFA-1 ([De Fougères \*et al.\* 1991](#)).

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Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
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## References

1. Xu, H. *et al.* (1996) Characterization of murine intercellular adhesion molecule-2. [J Immunol. 156 \(12\): 4909-14.](#)
2. Diacovo, T.G. *et al.* (1994) A functional integrin ligand on the surface of platelets: intercellular adhesion molecule-2. [J Clin Invest. 94 \(3\): 1243-51.](#)
3. Porter, J.C. & Hall, A. (2009) Epithelial ICAM-1 and ICAM-2 regulate the egression of human T cells across the bronchial epithelium. [FASEB J. 23 \(2\): 492-502.](#)
4. Banerjee, P. *et al.* (2007) Human T-cell leukemia virus type 1 (HTLV-1) p121 down-modulates ICAM-1 and -2 and reduces adherence of natural killer cells, thereby protecting HTLV-1-infected primary CD4+ T cells from autologous natural killer cell-mediated cytotoxicity despite the reduction of major histocompatibility complex class I molecules on infected cells. [J Virol. 81: 9707-17.](#)
5. Arjmandi A *et al.* (2009) Dendritic cell adhesion to cerebral endothelium: role of endothelial cell adhesion molecules and their ligands. [J Neuropathol Exp Neurol. 68 \(3\): 300-13.](#)

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Storage	Store at +4°C or at -20°C if preferred.
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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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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2290A647T">https://www.bio-rad-antibodies.com/SDS/MCA2290A647T</a> 10041
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA929A647\)](#)

### Recommended Useful Reagents

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

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

<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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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)  
'M366566:200529'

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