

Datasheet: MCA2290A647T

Description:	MOUSE ANTI HUMAN CD102:Alexa Fluor® 647
Specificity:	CD102
Other names:	ICAM-2
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	CBRIC2/2
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 - 1/10

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.

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 tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% sodium azide (NaN₃)
1% bovine serum albumin

Approx. Protein Concentrations

IgG concentration 0.05 mg/ml

Immunogen Transfected COS cells expressing ICAM-2 cDNA.

External Database

Links

UniProt:

[P13598](#) [Related reagents](#)

Entrez Gene:

[3384](#) ICAM2 [Related reagents](#)

RRID

AB_1100544

Fusion Partners

Cells from immunized BALB/c mice were fused with cells of the Murine P3X63Ag.653 myeloma cell line.

Specificity

Mouse anti Human CD102 antibody, clone CBRIC2/2 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 ([Yamashita *et al.* 2008](#)).

Mouse anti Human CD102 antibody, clone CBRIC2/2 is reported to inhibit interactions between CD102 and LFA-1 ([De Fougerolles *et al.* 1991](#)).

Flow Cytometry

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

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) p12I 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

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Guarantee 12 months from date of despatch

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Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2290A647T>
10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

Recommended Useful Reagents

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

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

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