

## Datasheet: MCA1140

**BATCH NUMBER 150746**

<b>Description:</b>	MOUSE ANTI HUMAN CD102
<b>Specificity:</b>	CD102
<b>Other names:</b>	ICAM-2
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	B-T1
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.2 mg

## 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	▪			1/20 - 1/50
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			
Immunofluorescence	▪			

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.

<b>Target Species</b>	Human
<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 Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	ICAM-2 transfected CHO cells.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P13598</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3384</a> ICAM2    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_321980
<b>Fusion Partners</b>	Spleen cells from immunized BALB/c (Iffa Credo) mice were fused with cells of the X63/Ag.8653 mouse myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human CD102 antibody, clone B-T1</b> recognizes human Inter cellular adhesion molecule 2, also known as CD102 or ICAM-2. CD102 is a 275 amino acid ~55-65 kDa single pass type-1 transmembrane glycoprotein containing two <a href="#">Ig-like C2-type</a> domains.</p> <p>Mouse anti Human CD102 antibody, clone B-T1 inhibits cell adhesion (<a href="#">Xie et al. 1995</a>) and T cell activation and also recognizes soluble ICAM-2.</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>Xie, J. <i>et al.</i> (1995) Inter cellular adhesion molecule-2 (CD102) binds to the leukocyte integrin CD11b/CD18 through the A domain. <a href="#">J Immunol. 155 (7): 3619-28.</a></li> <li>Jolly, C. <i>et al.</i> (2007) Adhesion molecule interactions facilitate human immunodeficiency virus type 1-induced virological synapse formation between T cells. <a href="#">J Virol. 81 (24): 13916-21.</a></li> <li>Huang, M.T. <i>et al.</i> (2005) Endothelial inter cellular adhesion molecule (ICAM)-2 regulates angiogenesis. <a href="#">Blood. 106:1636-43.</a></li> <li>Birdsey, G.M. <i>et al.</i> (2008) Transcription factor Erg regulates angiogenesis and endothelial apoptosis through VE-cadherin. <a href="#">Blood. 111: 3498-506.</a></li> <li>Carreno, M.P. <i>et al.</i> (2002) Binding of LFA-1 (CD11a) to inter cellular adhesion molecule 3 (ICAM-3; CD50) and ICAM-2 (CD102) triggers transmigration of human immunodeficiency virus type 1-infected monocytes through mucosal epithelial cells. <a href="#">J Virol. 76: 32-40.</a></li> <li>Starke, R.D. <i>et al.</i> (2011) Endothelial von Willebrand factor regulates angiogenesis. <a href="#">Blood. 117: 1071-80.</a></li> <li>Ishido, S. <i>et al.</i> (2000) Inhibition of natural killer cell-mediated cytotoxicity by Kaposi's sarcoma-associated herpesvirus K5 protein. <a href="#">Immunity. 13: 365-74.</a></li> <li>Fricke, B. <i>et al.</i> (2005) Stomatin is mis-trafficked in the erythrocytes of overhydrated hereditary stomatocytosis, and is absent from normal primitive yolk sac-derived erythrocytes. <a href="#">Br J Haematol. 131: 265-77.</a></li> <li>Garbe, Y. <i>et al.</i> (2011) Semiallogenic fusions of MSI(+) tumor cells and activated B cells</li> </ol>

induce MSI-specific T cell responses. [BMC Cancer. 11: 410.](#)  
10. McLaughlin, F. *et al.* (1998) Tumor necrosis factor (TNF)-alpha and interleukin (IL)-1beta down-regulate intercellular adhesion molecule (ICAM)-2 expression on the endothelium. [Cell Adhes Commun. 6 \(5\): 381-400.](#)

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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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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1140>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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