

Datasheet: MCA1140

Description:	MOUSE ANTI HUMAN CD102
Specificity:	CD102
Other names:	ICAM-2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	B-T1
Isotype:	IgG1
Quantity:	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.

	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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% sodium azide (NaN ₃)

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	ICAM-2 transfected CHO cells.
External Database Links	<p>UniProt: P13598 Related reagents</p> <p>Entrez Gene: 3384 ICAM2 Related reagents</p>
RRID	AB_321980
Fusion Partners	Spleen cells from immunized BALB/c (Iffa Credo) mice were fused with cells of the X63/Ag.8653 mouse myeloma cell line.
Specificity	<p>Mouse anti Human CD102 antibody, clone B-T1 recognizes human Intercellular 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 Ig-like C2-type domains.</p> <p>Mouse anti Human CD102 antibody, clone B-T1 inhibits cell adhesion (Xie et al. 1995) and T cell activation and also recognizes soluble ICAM-2.</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl.
References	<ol style="list-style-type: none"> Xie, J. <i>et al.</i> (1995) Intercellular adhesion molecule-2 (CD102) binds to the leukocyte integrin CD11b/CD18 through the A domain. J Immunol. 155 (7): 3619-28. Jolly, C. <i>et al.</i> (2007) Adhesion molecule interactions facilitate human immunodeficiency virus type 1-induced virological synapse formation between T cells. J Virol. 81 (24): 13916-21. Huang, M.T. <i>et al.</i> (2005) Endothelial intercellular adhesion molecule (ICAM)-2 regulates angiogenesis. Blood. 106:1636-43. Birdsey, G.M. <i>et al.</i> (2008) Transcription factor Erg regulates angiogenesis and endothelial apoptosis through VE-cadherin. Blood. 111: 3498-506. Carreno, M.P. <i>et al.</i> (2002) Binding of LFA-1 (CD11a) to intercellular adhesion molecule 3 (ICAM-3; CD50) and ICAM-2 (CD102) triggers transmigration of human immunodeficiency virus type 1-infected monocytes through mucosal epithelial cells. J Virol. 76: 32-40. Starke, R.D. <i>et al.</i> (2011) Endothelial von Willebrand factor regulates angiogenesis. Blood. 117: 1071-80. Ishido, S. <i>et al.</i> (2000) Inhibition of natural killer cell-mediated cytotoxicity by Kaposi's sarcoma-associated herpesvirus K5 protein. Immunity. 13: 365-74. 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. Br J Haematol. 131: 265-77. Garbe, Y. <i>et al.</i> (2011) Semiallogenic fusions of MSI(+) tumor cells and activated B cells

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.](#)

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.

Guarantee 12 months from date of despatch

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

Regulatory For research purposes only

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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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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