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 ion exchange chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	ICAM-2 transfected CHO cells.
External Database	**UniProt:**

Links	P13598 Related reagents **Entrez Gene:** 3384 ICAM2 Related reagents
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	**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. 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.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.
References	1. Xie, J. *et al.* (1995) Intercellular adhesion molecule-2 (CD102) binds to the leukocyte integrin CD11b/CD18 through the A domain. J Immunol. 155 (7): 3619-28. 2. Jolly, C. *et al.* (2007) Adhesion molecule interactions facilitate human immunodeficiency virus type 1-induced virological synapse formation between T cells. J Virol. 81 (24): 13916-21. 3. Huang, M.T. *et al.* (2005) Endothelial intercellular adhesion molecule (ICAM)-2 regulates angiogenesis. Blood. 106:1636-43. 4. Birdsey, G.M. *et al.* (2008) Transcription factor Erg regulates angiogenesis and endothelial apoptosis through VE-cadherin. Blood. 111: 3498-506. 5. Carreno, M.P. *et al.* (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. 6. Starke, R.D. *et al.* (2011) Endothelial von Willebrand factor regulates angiogenesis. Blood. 117: 1071-80. 7. Ishido, S. *et al.* (2000) Inhibition of natural killer cell-mediated cytotoxicity by Kaposi's sarcoma-associated herpesvirus K5 protein. Immunity. 13: 365-74. 8. Fricke. B. *et al.* (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. 9. Garbe, Y. *et al.* (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	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.
Shelf Life	18 months from date of despatch.
Health And Safety	Material Safety Datasheet documentation #10040 available at:

Information	10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South America Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com

Worldwide Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com

Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

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