

Datasheet: MCA1140

BATCH NUMBER 164984

| | |
|----------------------|------------------------|
| 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 | <0.1% sodium azide (NaN ₃) |

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen ICAM-2 transfected CHO cells.

External Database Links

UniProt:

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

Entrez Gene:

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

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

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. Starke, R.D. *et al.* (2011) Endothelial von Willebrand factor regulates angiogenesis. [Blood. 117: 1071-80.](#)
6. Ishido, S. *et al.* (2000) Inhibition of natural killer cell-mediated cytotoxicity by Kaposi's sarcoma-associated herpesvirus K5 protein. [Immunity. 13: 365-74.](#)
7. 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.](#)
8. 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.](#)
9. 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 IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#),
[DyLight@650](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)

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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