

## Monoclonal Antibody to CD102 / ICAM2 - FITC

<b>Alternate names:</b>	ICAM-2, Intercellular adhesion molecule 2
<b>Catalog No.:</b>	SM2223F
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	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). Reports suggest that the CD102 may play a role in lymphocyte re-circulation and T-cell activation.
<b>Uniprot ID:</b>	<a href="#">P13598</a>
<b>NCBI:</b>	<a href="#">NP_000864.2</a>
<b>GeneID:</b>	<a href="#">3384</a>
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Clone:</b>	CBRIC2/2
<b>Immunogen:</b>	Transfected COS cells expressing ICAM-2 cDNA. Cells from immunised BALB/c mice were fused with cells of the Murine P3X63Ag.653 myeloma cell line.
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction <b>Purification:</b> Affinity Chromatography on Protein G. <b>Buffer System:</b> PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	<b>Flow Cytometry:</b> Use 10 µl of neat-1/10 diluted antibody to label 10e6 cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises CD102, also known as intercellular adhesion molecule-2 (ICAM-2). Clone CBR-IC2/2 is reported to inhibit interactions between CD102 and LFA-1. We recommend the use of SM2223LE for this purpose. <b>Species:</b> Human. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General References:</b>	1. De Fougerolles, A.R. et al. (1991) Characterization of ICAM-2 and Evidence for a Third Counter-Receptor for LFA-1. J. Exp. Med. 174:253-267.

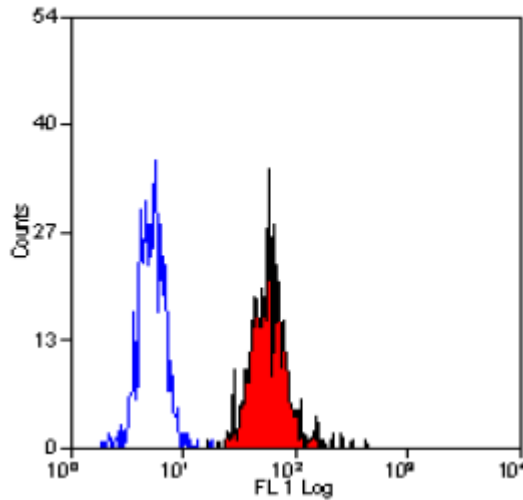
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2. Diacovo, T.G. et al. (1994) A Functional Integrin Ligand on the Surface of Platelets: Intercellular Adhesion Molecule-2. *J. Clin. Invest.* 94:1243-1251.
3. Porter, J.C. et al. (2009) Epithelial ICAM-1 and ICAM-2 regulate the egression of human T cells across the bronchial epithelium. *FASEB J.* 23: 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.

**Pictures:**



Staining of human peripheral blood monocytes with MOUSE ANTI HUMAN CD102: FITC (SM2223F).

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