

Mouse Anti-Human Intercellular adhesion molecule 2 Monoclonal Antibody

Cat. No. CAB11557MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Monoclonal Antibody to Human Intercellular adhesion molecule 2
Species	Human
Source	Mouse
Antigen Description	Intercellular adhesion molecule 2 (ICAM2, CD102), belongs to the ICAM family consisting of three members identified as ligands for integrin receptors. It is a type I transmembrane glycoprotein with two Ig-like C2-type domains, and binds to the leukocyte integrins LFA-1 (CD11a/CD18) and Mac-1 (CD11b/CD18). ICAM2 is mainly expressed on vascular endothelial and hematopoietic cells. Interactions of ICAM2 and the integrin receptors mediate cell adhesion in a wide range of lymphocyte, monocyte, natural killer cell, and granulocyte with other cells, and play important roles in many adhesion-dependent immune and inflammation responses, such as T cell aggregation, NK-cell cytotoxicity and migration, lymphocyte recirculation, etc. This protein can be encoded by several transcript variants.
Specificity	Human ICAM-2 / CD102. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA.
Immunogen	Recombinant Human ICAM-2 / CD102 Protein
Isotype	Mouse IgG1

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Cross Reactivity	1A5C1
Clone	2B6D2
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 0.1-0.2µg/mL with the appropriate secondary reagents to detect ICAM2-His in WB. Using a DAB detection system, the detection limit for ICAM2-His is approximately 8 ng/lane under non-reducing conditions and 2 ng/lane under reducing conditions. Direct ELISA: This antibody can be used at 0.5-1 µg/mL with the appropriate secondary reagents to detect ICAM2-His. The detection limit for ICAM2-His is approximately 0.00975 ng/well.
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, human cell-derived, recombinant Human ICAM-2 / CD102 (rh ICAM-2 / CD102; NP_777596.2; Met 1 - Gln 223). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	ICAM2 intercellular adhesion molecule 2 [Homo sapiens]
------------------	--

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Official Symbol	ICAM2
Synonyms	ICAM2; intercellular adhesion molecule 2; CD102; ICAM-2;
Gene ID	3384
mRNA Refseq	NM_000873
Protein Refseq	NP_000864
MIM	146630
UniProt ID	P13598
Chromosome Location	17q23-q25
Pathway	Adaptive Immune System, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Immune System, organism-specific biosystem; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell, organism-specific biosystem; Integrin cell surface interactions, organism-specific biosystem; Natural killer cell mediated cytotoxicity, organism-specific biosystem;
Function	integrin binding;