

# Mouse Anti-Human Inter-Cellular Adhesion Molecule 1 Monoclonal Antibody

**Cat. No.** CAB11556MH    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Mouse Monoclonal Antibody to Human Inter-Cellular Adhesion Molecule 1

**Species**                      Human

**Source**                        Mouse

**Antigen Description**

ICAM1 (Inter-Cellular Adhesion Molecule 1), also known as CD54, is a type of intercellular adhesion molecule constitutively present in low concentrations in the membranes of leukocytes and endothelial cells. As an endothelial and leukocyte-associated transmembrane protein, ICAM1 is well known for its importance in stabilizing cell-cell interactions and facilitating leukocyte endothelial transmigration. ICAM1 is a ligand for LFA-1 (integrin). When activated, leukocytes bind to endothelial cells via ICAM1 / LFA-1 interaction and then transmigrate into tissues. Presence with heavy glycosylation and other structural characteristics, ICAM1 possesses binding sites for a number of immune-associated ligands and serves as the binding site for entry of the major group of human Rhinovirus (HRV) into various cell types. ICAM1 also becomes known for its affinity for Plasmodium falciparum-infected erythrocytes (PFIE), providing more of a role in infectious disease.

**Specificity**

Human ICAM1 / CD54. No cross-reactivity in WB and ELISA with Human ICAM2 / CD102, Human ICAM3 / CD50, Human VCAM1 / CD106, Human CEACAM1 / CD66a, Human E-selectin / SELE / CD62E / ELAM1, Human cell lysate (293 cell line)

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<b>Immunogen</b>	Recombinant human ICAM-1 protein
<b>Isotype</b>	Mouse IgG1
<b>Cross Reactivity</b>	8H8G9
<b>Clone</b>	9I9H10
<b>Applications</b>	WB
<b>Dilution</b>	Western blot: This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human ICAM1 in WB. Using a DAB detection system, the detection limit for human ICAM1 is approximately 8 ng/lane under non-reducing conditions and 20 ng/lane under reducing conditions
<b>Preparation</b>	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 ICAM1 / CD54 extracellular domain ( rh ICAM1 ; NP_000192.2 ; Met 1- Glu 480 ). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
<b>Format</b>	0.2 µm filtered solution in PBS with 5% trehalose
<b>Storage</b>	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

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<b>Gene Name</b>	ICAM1 intercellular adhesion molecule 1 [ Homo sapiens ]
<b>Official Symbol</b>	ICAM1
<b>Synonyms</b>	ICAM1; intercellular adhesion molecule 1; BB2; CD54; human rhinovirus receptor; ICAM-1; cell surface glycoprotein P3.58; major group rhinovirus receptor; intercellular adhesion molecule 1 (CD54), human rhinovirus receptor; P3.58;
<b>Gene ID</b>	3383
<b>mRNA Refseq</b>	NM_000201
<b>Protein Refseq</b>	NP_000192
<b>MIM</b>	147840
<b>UniProt ID</b>	P05362
<b>Chromosome Location</b>	19p13.3-p13.2
<b>Pathway</b>	Adaptive Immune System, organism-specific biosystem; African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Glucocorticoid receptor regulatory network, organism-specific biosystem;
<b>Function</b>	cell surface binding; integrin binding; protein binding; receptor activity; transmembrane signaling receptor activity;

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