

## Mouse anti-Human ICAM-1 Monoclonal Antibody | anti-ICAM1 antibody

Anti-ICAM-1 Antibody (FITC), Mouse Monoclonal

|                               |                      |                            |                                                         |
|-------------------------------|----------------------|----------------------------|---------------------------------------------------------|
| CATALOG #<br><b>AAA254851</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Flow Cytometry, Functional Assay</b> |
|-------------------------------|----------------------|----------------------------|---------------------------------------------------------|

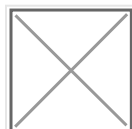
### PRODUCT SYNONYMS

ICAM-1; Monoclonal Antibody; Anti-ICAM-1 Antibody (FITC); Mouse Monoclonal; ICAM-1/CD54 Antibody (FITC); Mouse MAb; intercellular adhesion molecule 1; Anti-BB2 Antibody; Anti-CD54 Antibody; Anti-ICAM-1 Antibody; Anti-P3.58 Antibody; anti-ICAM1 antibody

### PRODUCT SPECIFICATIONS

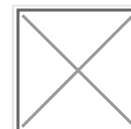
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|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                  |
| Reactivity                                      | Human                                                                                                                                                                                                                                                                                  |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                             |
| Isotype                                         | Mouse IgG1                                                                                                                                                                                                                                                                             |
| Clone Number                                    | 01                                                                                                                                                                                                                                                                                     |
| Specificity                                     | Human ICAM-1/CD54                                                                                                                                                                                                                                                                      |
| Purity/Purification                             | Protein A                                                                                                                                                                                                                                                                              |
| Form/Format                                     | Liquid; Aqueous solution containing 0.5% BSA and 0.09% sodium azide                                                                                                                                                                                                                    |
| Concentration                                   | 10ul/Test, 0.1mg/ml (varies by lot)                                                                                                                                                                                                                                                    |
| Applicable Applications for anti-ICAM1 antibody | FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                              |
| Immunogen                                       | Recombinant Human ICAM-1 protein                                                                                                                                                                                                                                                       |
| Conjugation                                     | FITC                                                                                                                                                                                                                                                                                   |
| 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, recombinant Human ICAM-1/CD54 (rh ICAM-1/CD54) and conjugated with FITC under optimum conditions, the unreacted FITC was removed. |
| Preparation and Storage                         | This antibody can be stored at 2-8 degree C for twelve months without detectable loss of activity. Protected from prolonged exposure to light. Do not freeze! Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal.    |

### IMAGES



#### FCM/FACS (Flow Cytometry)

Flow cytometric analysis of Human ICAM1 (CD54) in HUVEC cells. HUVEC cells (Human umbilical vein endothelial cells) were treated with TNF-alpha (50 ng/ml, 18 hours). The cells were harvested and stained with FITC Mouse anti-Human ICAM1 (10346-MM01).



#### Application Data

Profile of anti-ICAM1(CD54) reactivity on Daudi cells analyzed by flow cytometry.

## ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ICAM1 antibody | Intercellular adhesion molecule-1 (ICAM-1, or CD54) is a 90 kDa member of the immunoglobulin (Ig) superfamily and is critical for the firm arrest and transmigration of leukocytes out of blood vessels and into tissues. ICAM-1 is constitutively present on endothelial cells, but its expression is increased by proinflammatory cytokines. The endothelial expression of ICAM-1 is increased in atherosclerotic and transplant-associated atherosclerotic tissue and animal models of atherosclerosis. Additionally, ICAM-1 has been implicated in the progression of autoimmune diseases. ICAM-1 is a ligand for LFA-1(integrin). When activated, leukocytes bind to endothelial cells via ICAM-1/LFA-1 interaction and then transmigrate into tissues. Presence with heavy glycosylation and other structural characteristics, ICAM-1 possesses binding sites for some immune-associated ligands and serves as the binding site for entry of the major group of human Rhinovirus (HRV) into various cell types. ICAM-1 also becomes known for its affinity for Plasmodium falciparum-infected erythrocytes (PFIE), providing more of a role in infectious disease. Previous studies have shown that ICAM-1 is involved in inflammatory reactions and that a defect in ICAM-1 gene inhibits allergic contact hypersensitivity. |
| Product Categories/Family for anti-ICAM1 antibody   | <a href="#">Neuroinflammation</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| References                                          | Xu H, et al. (2001) The role of ICAM-1 molecule in the migration of Langerhans cells in the skin and regional lymph node. Eur J Immunol. 31(10): 3085-93.Terol MJ, et al. (2003) Soluble intercellular adhesion molecule-1 (s-ICAM-1/s-CD54) in diffuse large B-cell lymphoma: association with clinical characteristics and outcome. Ann Oncol. 14(3): 467-74.Mendez MP, et al. (2006) Shedding of soluble ICAM-1 into the alveolar space in murine models of acute lung injury. Am J Physiol Lung Cell Mol Physiol. 290(5): L962-70.Lawson C, et al. (2009) ICAM-1 signaling in endothelial cells. Pharmacol Rep. 61(1): 22-32.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">167466198</a>                                                                                                                                                        |
| NCBI GeneID                      | <a href="#">3383</a>                                                                                                                                                             |
| NCBI Accession #                 | <a href="#">NP_000192.2</a>                                                                                                                                                      |
| NCBI GenBank Nucleotide #        | <a href="#">NM_000201.2</a>                                                                                                                                                      |
| UniProt Accession #              | <a href="#">P05362</a> ; <a href="#">Q5NKV7</a> ; <a href="#">Q96B50</a> ; <a href="#">B2R6M3</a>                                                                                |
| Molecular Weight                 | 57,825 Da                                                                                                                                                                        |
| NCBI Official Full Name          | intercellular adhesion molecule 1                                                                                                                                                |
| NCBI Official Synonym Full Names | intercellular adhesion molecule 1                                                                                                                                                |
| NCBI Official Symbol             | ICAM1                                                                                                                                                                            |
| NCBI Official Synonym Symbols    | BB2; CD54; P3.58                                                                                                                                                                 |
| NCBI Protein Information         | intercellular adhesion molecule 1; ICAM-1; cell surface glycoprotein P3.58; major group rhinovirus receptor; intercellular adhesion molecule 1 (CD54), human rhinovirus receptor |
| UniProt Protein Name             | Intercellular adhesion molecule 1                                                                                                                                                |
| UniProt Gene Name                | <b>ICAM1</b>                                                                                                                                                                     |
| UniProt Synonym Gene Names       | ICAM-1                                                                                                                                                                           |
| UniProt Entry Name               | ICAM1_HUMAN                                                                                                                                                                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/icam-1-antibody-clone-01-flow-cytometry-elisa/254851>