

## Mouse Anti-Human ICAM1 Monoclonal Antibody

### Mouse, Monoclonal (ICAM1)

Cat. No. DMAB2523MH

Lot. No. (See product label)

#### PRODUCT INFORMATION

**Antigen Description:** This gene encodes a cell surface glycoprotein which is typically expressed on endothelial cells and cells of the immune system. It binds to integrins of type CD11a / CD18, or CD11b / CD18 and is also exploited by Rhinovirus as a receptor.

**Immunogen:** Rheumatoid synovial cells and human monocytes

**Isotype:** IgG<sub>1</sub>

**Specificity:** Recognizes the (Mr 85-115 kDa) intercellular adhesion molecule ICAM-1 which permits antigenindependent adhesion between lymphocytes and their targets. The LFA-1 binding site is located in domain 1 of ICAM-1.

**Clone:** A16.3

**Format:** Phyco, Liquid

**Host animal:** Mouse.

**Source:** Cell culture

**Purification:** Protein A chromatography.

**Application:** May be used to study cell-cell interactions. May also be used in studies of rhinovirus and malaria receptors. R-phycoerythrin has an absorbance maximum of 565.5nm with an emission maximum at 578nm. This fluorochrome has been covalently conjugated to anti-human CD54 and purified chromatographically to remove unconjugated dye and antibody achieving a fluorochrome/protein (F/P) molar ratio between 0.7-1.3. We recommend using 1µg to stain 1.0 x 10<sup>6</sup> cells in flow cytometric applications. Each laboratory should determine an optimum working titer for use in its particular application. Centrifuge before opening to ensure complete recovery of vial contents.

#### PACKAGING

**Concentration:** 100µg/ml (OD280nm)

**Buffer:** 0.01M PBS, pH 7.2 containing 2mM EDTA, 1% BSA

**Preservative:** 0.1% Sodium azide

**Storage:** Store (protected from light) at 2-8°C. **DO NOT FREEZE.**

**Warning:** This product contains sodium azide, which has been classified as Xn (Harmful), in European Directive 67/548/EEC in the concentration range of 0.1-1.0%. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.

#### ANTIGEN GENE INFORMATION

**Gene Name:** [ICAM1 intercellular adhesion molecule 1 \[ \*Homo sapiens\* \]](#)

**Official Symbol:** ICAM1

**Synonyms:** BB2; CD54; P3.58; ICAM1; intercellular adhesion molecule 1; ICAM-1; human rhinovirus receptor; cell surface glycoprotein P3.58; major group rhinovirus receptor; intercellular adhesion molecule 1 (CD54), human rhinovirus receptor

**GeneID:** [3383](#)

**mRNA Refseq:** [NM\\_000201](#)

**Protein Refseq:** [NP\\_000192](#)

**MIM:** [147840](#)

**UniProt ID:** P05362

**Chromosome Location:** 19p13.3-p13.2

**Pathway:** African trypanosomiasis, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Glucocorticoid receptor regulatory network, organism-specific biosystem; IL-2 Signaling Pathway, organism-specific biosystem; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell, organism-specific biosystem; Integrin cell surface interactions, organism-specific biosystem; Leukocyte transendothelial migration, organism-specific biosystem; Malaria, organism-specific biosystem; Natural killer cell mediated cytotoxicity, organism-specific biosystem; Rheumatoid arthritis, organism-specific biosystem; Selenium Pathway, organism-specific biosystem; Thromboxane A2 receptor signaling, organism-specific biosystem; Type II interferon signaling (IFNG), organism-specific biosystem; Viral myocarditis, organism-specific biosystem; amb2 Integrin signaling, organism-specific biosystem

**Function:** cell surface binding; integrin binding; protein binding; receptor activity; transmembrane receptor activity

#### REFERENCES

1. Hogg, N. et al (1992) Cell, **68**:71.
2. Hogg, N. et al (1992) J. of Cell Biology, **116**:1527