

ICAM1 monoclonal antibody, clone MEM-111 (PE)

Catalog # MAB4641

Size 100 Reactions

Specification

Product Description	Mouse monoclonal antibody raised against native ICAM1.
Immunogen	Native purified ICAM1 from Raji Burkitt's lymphoma cell line.
Host	Mouse
Theoretical MW (kDa)	85-110
Reactivity	Bovine, Human, Rat
Specificity	This antibody reacts with CD54 (ICAM-1), a 85-110 KDa type I transmembrane glycoprotein (receptor for rhinovirus). The expression of CD54 is upregulated by activation; it is expressed on activated endothelial cells, T lymphocytes, B lymphocytes, monocytes, macrophages, granulocytes and dendritic cells.
Form	Liquid
Conjugation	PE
Isotype	IgG2a
Recommend Usage	Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Flow Cytometry

Gene Info — ICAM1

Entrez GeneID	3383
Gene Name	ICAM1
Gene Alias	BB2, CD54, P3.58
Gene Description	intercellular adhesion molecule 1
Omim ID	147840 248310 611162
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	cell surface glycoprotein P3.58 human rhinovirus receptor intercellular adhesion molecule 1 (CD54), human rhinovirus receptor

Publication Reference

- [Susceptibility of immature and mature Langerhans cell-type dendritic cells to infection and immunomodulation by human cytomegalovirus.](#)

Hertel L, Lacaille VG, Strobl H, Mellins ED, Mocarski ES.
Journal of Virology 2003 Jul; 77(13):7563.

Application: Flow Cyt, Mouse, Dendritic cells
- [Colon carcinoma cell glycolipids, integrins, and other glycoproteins mediate adhesion to HUVECs under flow.](#)

Burdick MM, McCaffery JM, Kim YS, Bochner BS, Konstantopoulos K.
American Journal of Physiology. Cell Physiology 2002 Dec; 284(4):C977.

Application: IEM, Human, HUVEC, LS174T cells
- [Eotaxin-2 alters eosinophil integrin function via mitogen-activated protein kinases.](#)

Tachimoto H, Kikuchi M, Hudson SA, Bickel CA, Hamilton RG, Bochner BS.
American Journal of Respiratory Cell and Molecular Biology 2002 Jun; 26(6):645.

Application: ELISA, Human, Eosinophils

- [Molecular mechanisms of improved adhesion and growth of an endothelial cell line cultured on polystyrene implanted with fluorine ions.](#)

Bacáková L, Mares V, Lisá V, Svorčík V.

Biomaterials 2000 Jun; 21(11):1173.

Application: ELISA, Cow, CPAE cells

- [Fluorine ion-implanted polystyrene improves growth and viability of vascular smooth muscle cells in culture.](#)

Bacáková L, Mares V, Bottone MG, Pellicciari C, Lisá V, Svorčík V.

Journal of Biomedical Materials Research 2000 Mar; 49(3):369.

Application: IF, Rat, Aortic smooth muscle cells

Pathway

- [Cell adhesion molecules \(CAMs\)](#)
- [Leukocyte transendothelial migration](#)
- [Natural killer cell mediated cytotoxicity](#)

Disease

- [Acute Disease](#)
- [Albuminuria](#)
- [Alzheimer disease](#)
- [Amyotrophic lateral sclerosis](#)
- [Anemia](#)
- [Angina Pectoris](#)
- [Arterial Occlusive Diseases](#)
- [Arthritis](#)
- [Asthma](#)
- [Astrocytoma](#)
- [Atherosclerosis](#)

- [Autoimmune Diseases](#)
- [Behcet Syndrome](#)
- [Biliary Atresia](#)
- [Birth Weight](#)
- [Blood Coagulation Disorders](#)
- [Brain Ischemia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchiolitis](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Celiac Disease](#)
- [Cerebrovascular Accident](#)
- [Cerebrovascular Disorders](#)
- [Chlamydia Infections](#)
- [Cholangitis](#)
- [Chronic Disease](#)
- [Cicatrix](#)
- [Colitis](#)
- [Colorectal Neoplasms](#)
- [Common Cold](#)
- [Community-Acquired Infections](#)
- [Constriction](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)

- [Coronary Restenosis](#)
- [Crohn Disease](#)
- [Dementia](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Encephalitis](#)
- [Endometriosis](#)
- [Erythema Nodosum](#)
- [Esophageal Neoplasms](#)
- [Fatigue Syndrome](#)
- [Fibrosis](#)
- [Gastrointestinal Hemorrhage](#)
- [Gastroschisis](#)
- [Genetic Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Glomerulonephritis](#)
- [Graves Disease](#)
- [Graves Ophthalmopathy](#)

- [Head and Neck Neoplasms](#)
- [Hematologic Diseases](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Hodgkin Disease](#)
- [Hypercholesterolemia](#)
- [Hyperlipidemias](#)
- [Hypersensitivity](#)
- [Hypertension](#)
- [Infant](#)
- [Infection](#)
- [Inflammation](#)
- [Inflammatory Bowel Diseases](#)
- [Insulin Resistance](#)
- [Ischemia](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Malaria](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)

- [Metabolic Syndrome X](#)
- [Migraine Disorders](#)
- [Multiple Myeloma](#)
- [Multiple Sclerosis](#)
- [Multiple System Atrophy](#)
- [Myocardial Infarction](#)
- [Myocardial Reperfusion Injury](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Obesity](#)
- [Occupational Diseases](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatitis](#)
- [Parkinson disease](#)
- [Periodontitis](#)
- [Peripheral Arterial Disease](#)
- [Peripheral Vascular Diseases](#)
- [Pneumonia](#)
- [Polymyalgia Rheumatica](#)
- [Postoperative Complications](#)
- [Postoperative Hemorrhage](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)

- [Pseudoxanthoma Elasticum](#)
- [Pulmonary Disease](#)
- [Pulmonary Fibrosis](#)
- [Purpura](#)
- [Q Fever](#)
- [Recurrence](#)
- [Respiratory Distress Syndrome](#)
- [Respiratory Syncytial Virus Infections](#)
- [Sarcoidosis](#)
- [Schizophrenia](#)
- [Shock](#)
- [Skin Neoplasms](#)
- [Stroke](#)
- [Syndrome](#)
- [Systemic Inflammatory Response Syndrome](#)
- [Temporal Arteritis](#)
- [Thrombosis](#)
- [Trachoma](#)
- [Urinary Bladder Neoplasms](#)
- [Urinary Tract Infections](#)
- [Uveitis](#)
- [Vasculitis](#)
- [Venous Thrombosis](#)
- [Vertebral Artery Dissection](#)
- [Vision Disorders](#)
- [Waldenstrom Macroglobulinemia](#)

- [Werner syndrome](#)