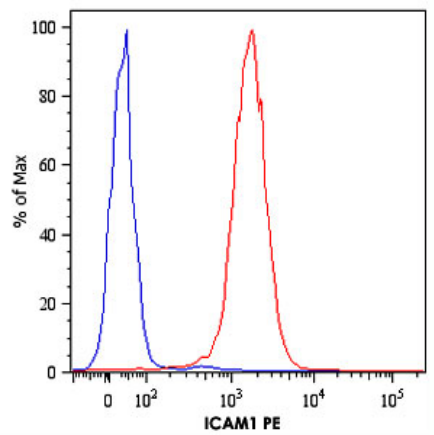
ICAM1 monoclonal antibody, clone 1H4

Catalog # MAB6450 Size 100 ug

Applications



Flow Cytometry

Surface staining of U-937 (human histiocytic lymphoma cell line) with ICAM1 monoclonal antibody, clone 1H4 (PE). Total viable cells were used for analysis.

Specification

Product Description	Mouse monoclonal antibody raised against native ICAM1.
Immunogen	Raji cells and spleen cells fused with NS1 cells.
Host	Mouse
Theoretical MW (kDa)	85-110
Reactivity	Human
Specificity	This antibody reacts with CD54 (ICAM-1), a 85-110 KDa type I transmembrane glycoprotein (recept or for rhinovirus) expressed on activated endothelial cells, Tlymphocytes, B lymphocytes, monocytes, macrophages, granulocytes and dendritic cells; the expression of CD54 is upregulated by activation.
Form	Liquid
Isotype	IgG2b

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Recommend Usage	Flow Cytometry (1 ug/mL) Immunocytochemistry Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (10 ug/mL) Immunohistochemistry (frozen sections) (5-10 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 300 mM NaCl, pH 7.4
Storage Instruction	Store at 4°C. Do not freeze. Aliquot to avoid repeated freezing and thawing.

Applications

- Immunohistochemistry
- Immunocytochemistry
- Flow Cytometry

  Surface staining of U-937 (human histiocytic lymphoma cell line) with ICAM1 monoclonal antibody, clone 1H4 (PE). Total viable cells were used for analysis.

- Western Blot

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

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Publication Reference

- Interactions of decay-accelerating factor (DAF) with haemagglutinating human enteroviruses: utilizing variation in primate DAF to map virus binding sites.

  Williams DT, Chaudhry Y, Goodfellow IG, Lea S, Evans DJ.

  The Journal of General Virology 2004 Mar; 85(Pt 3):731.

  Application: Func, Human, Human RD cells

- Plasmodium falciparum-infected erythrocytes bind ICAM-1 at a site distinct from LFA-1, Mac-1, and human rhinovirus.

  Ockenhouse CF, Betageri R, Springer TA, Staunton DE.

  Cell 1992 Jan; 68(1):63.

- Adhesion receptors of the immune system.

  Springer TA.

  Nature 1990 Aug; 346(6283):425.

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

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- 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

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- 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

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- 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

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- 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

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- 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

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- Vasculitis
- Venous Thrombosis
- Vertebral Artery Dissection
- Vision Disorders
- Waldenstrom Macroglobulinemia
- Werner syndrome

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