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Datasheet for ABIN94177

anti-ICAM1 antibody

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Overview

Quantity:	0.1 mg
Target:	ICAM1
Reactivity:	Human, Rat, Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ICAM1 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

Product Details

Immunogen:	Raji human Burkitt's lymphoma cell line
Clone:	MEM-111
Isotype:	IgG2a
Specificity:	The antibody MEM-111 reacts with an extracellular epitope of 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.
Cross-Reactivity (Details):	Rat, Human, Bovine
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	ICAM1
Alternative Name:	CD54 (ICAM1 Products)
Target Type:	Viral Protein
Background:	Intercellular adhesion molecule 1,CD54 (ICAM-1) is a 90 kD member of the C2 subset of immunoglobulin superfamily. It is a transmembrane molecule with 7 potential N-glycosylated sites, expressed on resting monocytes and endothelial cells and can be upregulated on many other cells, e.g. with lymphokines, on B- and T-lymphocytes, thymocytes, dendritic cells and also on keratinocytes, chondrocytes, as well as epithelial cells. CD54 mediates cell adhesion by binding to integrins CD11a/CD18 (LFA-1) and to CD11b/CD18 (Mac-1). The interaction of CD54 with LFA-1 enhances antigen-specific T-cell activation.,ICAM-1, BB2, P3.58
Gene ID:	3383
UniProt:	P05362
Pathways:	Cellular Response to Molecule of Bacterial Origin , Regulation of Actin Filament Polymerization , Carbohydrate Homeostasis , Regulation of Leukocyte Mediated Immunity , Thromboxane A2 Receptor Signaling

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 0.5-4 µg/mL. Immunohistochemistry (paraffin sections): Recommended dilution: 10 µg/mL, positive tissue: thymus, RE cells. Western blotting: Positive control: RAJI cell line K562 leukemia cell line, JY cell line, aa ctivated T-lymphocytes, non-reducing conditions.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.

Handling

Storage: 4 °C

Storage Comment: Store at 2-8°C. Do not freeze.

Publications

Product cited in: Lee, Sieling, Ochoa, Krutzik, Guo, Hernandez, Rea, Cheng, Colonna, Modlin: "LILRA2 activation inhibits dendritic cell differentiation and antigen presentation to T cells." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 179, Issue 12, pp. 8128-36, (2007) ([PubMed](#)).

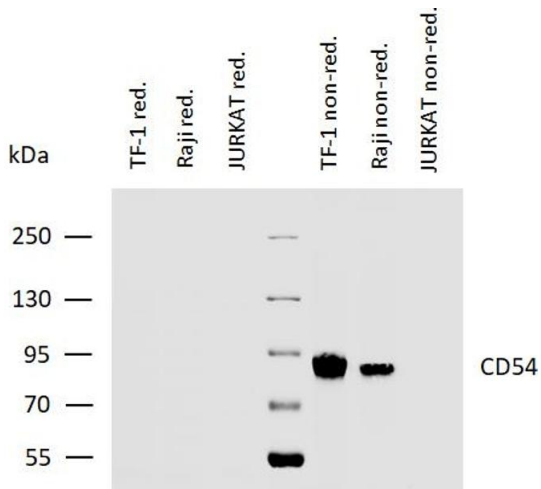
Burdick, McCaffery, Kim, Bochner, Konstantopoulos: "Colon carcinoma cell glycolipids, integrins, and other glycoproteins mediate adhesion to HUVECs under flow." in: **American journal of physiology. Cell physiology**, Vol. 284, Issue 4, pp. C977-87, (2003) ([PubMed](#)).

Hertel, Lacaille, Strobl, Mellins, Mocarski: "Susceptibility of immature and mature Langerhans cell-type dendritic cells to infection and immunomodulation by human cytomegalovirus." in: **Journal of virology**, Vol. 77, Issue 13, pp. 7563-74, (2003) ([PubMed](#)).

Tachimoto, Kikuchi, Hudson, Bickel, Hamilton, Bochner: "Eotaxin-2 alters eosinophil integrin function via mitogen-activated protein kinases." in: **American journal of respiratory cell and molecular biology**, Vol. 26, Issue 6, pp. 645-9, (2002) ([PubMed](#)).

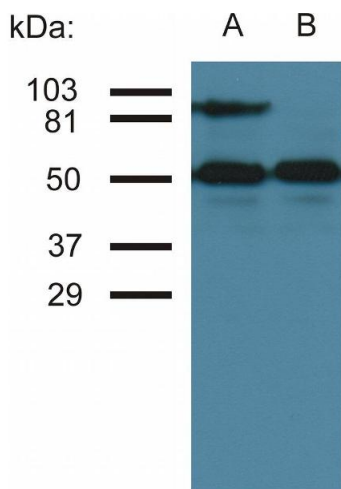
Bacáková, Mares, Lisá, Svorčík: "Molecular mechanisms of improved adhesion and growth of an endothelial cell line cultured on polystyrene implanted with fluorine ions." in: **Biomaterials**, Vol. 21, Issue 11, pp. 1173-9, (2000) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



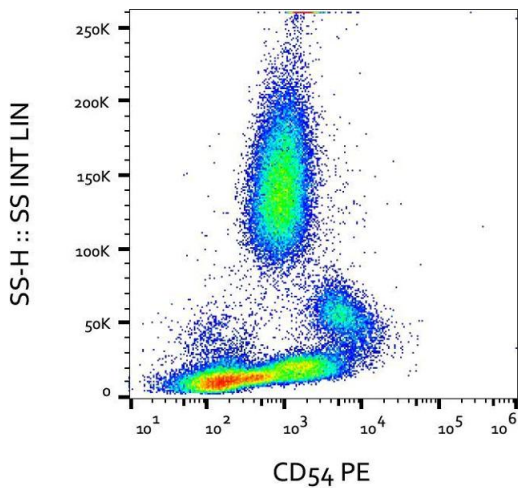
Western Blotting

Image 1. Western blotting analysis of human CD54 using mouse monoclonal antibody MEM-111 on lysates of TF-1 and Raji cells, as well as of JURKAT cells (negative control) under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2 µg/mL of mouse anti-CD54 monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody. A specific band was detected for CD54 at approximately 88 kDa.



Western Blotting

Image 2. Western blotting analysis of CD54 expression in TNF-alpha activated (A) and nonactivated (B) HUVEC cells by antibody MEM-111. Lower bands represent tubulin as a loading control.



Flow Cytometry

Image 3. Flow cytometry analysis (surface staining) of CD54 expression in activated human peripheral blood with anti-CD54 (MEM-111) PE.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN94177.