SANTA CRUZ BIOTECHNOLOGY, INC.

ICAM-2 (B-T1): sc-59789

BACKGROUND

Cell adhesion molecules are a family of closely related cell surface glycoproteins involved in cell-cell interactions during growth and are thought to play important, yet separate, roles in embryogenesis and development. The intracellular adhesion molecule-1 (ICAM-1), also referred to as CD54, is an integral membrane protein of the immunoglobulin superfamily and recognizes the β2α1 and β2αM Integrins. ICAM-2 functions as a ligand for lymphocyte function-associated antigen-1 (LFA-1) and is involved in leukocyte adhesion. ICAM-3 is highly expressed on the surface of human eosinophils and, when bound to ligand, may inhibit eosinophil inflammatory responses and survival. ICAM-4, also known as LW glycoprotein, interacts with Integrins αLβ2, αMβ2, α4β1, the αV family and αIIbβ3, and selective binding to different integrins may be relevant to the pathology in a number of red blood cell associated diseases. Lastly, ICAM-5, expressed on telencephalic neurons, binds CD11a/CD18 and thus may act as an adhesion molecule for leukocyte binding in the central nervous system.

REFERENCES

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STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

CHROMOSOMAL LOCATION

Genetic locus: ICAM2 (human) mapping to 17q25.

SOURCE

ICAM-2 (B-T1) is a mouse monoclonal antibody raised against ICAM-2 of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 in 1.0 ml of PBS with < 0.1% sodium azide, 0.1% gelatin and 1% BSA.

Available as fluorescein conjugate for flow cytometry, sc-59789 FITC, 100 tests.

APPLICATIONS

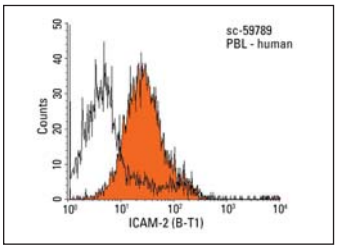
ICAM-2 (B-T1) is recommended for detection of ICAM-2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1–2 µg per 100–500 µg of total protein (1 ml of cell lysate)] and flow cytometry (1 µg per 1 x 10^6 cells).

Suitable for use as control antibody for ICAM-2 siRNA (h): sc-35626, ICAM-2 shRNA Plasmid (h): sc-35626-SH and ICAM-2 shRNA (h) Lentiviral Particles: sc-35626-V.

Molecular Weight of ICAM-2: 55-80 kDa, depending on extent of glycosylation.

Positive Controls: HL-60 whole cell lysate: sc-2209, NAMALWA cell lysate: sc-2234 or human PBL.

DATA



ICAM-2 (B-T1): sc-59789. Indirect FCM analysis of human peripheral blood leukocytes stained with ICAM-2 (B-T1), followed by PE-conjugated goat anti-mouse IgG: sc-3738. Black line histogram represents the isotype control, normal mouse IgG_1: sc-3877.

RESEARCH USE

For research use only, not for use in diagnostic procedures.