ICAM-3 (ICAM 3.2): sc-53339



The Power to Question

BACKGROUND

Cell adhesion molecules (CAMs) are a family of closely related cell surface glycoproteins involved in cell-cell interactions during growth. These proteins are thought to play an important role in embryogenesis and development. ICAM-3, also designated CD50 and ICAM-R, is a type I membrane protein that is thought to regulate morphological changes during cell locomotion. ICAM-3 acts as a counter-receptor for the leukocyte Integrin $\alpha L/\beta 2$, and is known to activate T cells and polymorphonuclear leukocytes. ICAM-3 also binds to Moesin, via the cytoplasmic domain of ICAM-3. The expression of ICAM-3 is induced by RANTES, a chemoattractant known to activate T lymphocytes. ICAM-3 is also a major ligand for the leukocyte Integrin LFA-1 (CD11a/CD18).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ICAM3 (human) mapping to 19p13.2.

SOURCE

ICAM-3 (ICAM 3.2) is a mouse monoclonal antibody raised against ICAM-3/Fc chimeric fusion protein of human origin.

STORAGE

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

RESEARCH USE

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

PRODUCT

Each vial contains 200 μg lgG_1 in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

ICAM-3 (ICAM 3.2) is available conjugated to either phycoerythrin (sc-53339 PE) or fluorescein (sc-53339 FITC), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM.

APPLICATIONS

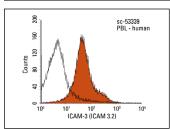
ICAM-3 (ICAM 3.2) is recommended for detection of ICAM-3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 μ g per 1 x 10⁶ cells).

Suitable for use as control antibody for ICAM-3 siRNA (h): sc-35628, ICAM-3 shRNA Plasmid (h): sc-35628-SH and ICAM-3 shRNA (h) Lentiviral Particles: sc-35628-V.

Molecular Weight of ICAM-3: 110-160 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2209, BJAB whole cell lysate: sc-2207 or THP-1 cell lysate: sc-2238.

DATA



ICAM-3 (ICAM 3.2): sc-53339. Indirect FCM analysis of human peripheral blood leukocytes stained with ICAM-3 (ICAM 3.2), followed by PE-conjugated goat anti-mouse IgG: sc-3738. Black line histogram represents the isotype control, normal mouse IgG; sc-3877.

PROTOCOLS

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

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