SANTA CRUZ BIOTECHNOLOGY, INC.

ICAM-2 (3C4): sc-81731

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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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CHROMOSOMAL LOCATION

Genetic locus: Icam2 (mouse) mapping to 11 E1.

SOURCE

ICAM-2 (3C4) is a rat monoclonal antibody raised against COS cells transfected with mouse ICAM-2 cDNA.

PRODUCT

Each vial contains 200 µg IgG_{2a} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ICAM-2 (3C4) is available conjugated to fluorescein (sc-81731 FITC), 200 µg/ml, for IF, IHC(P) and FCM.

APPLICATIONS

ICAM-2 (3C4) is recommended for detection of ICAM-2 of mouse origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10^6 cells).

Suitable for use as control antibody for ICAM-2 siRNA (m): sc-35627, ICAM-2 shRNA Plasmid (m): sc-35627-SH and ICAM-2 shRNA (m) Lentiviral Particles: sc-35627-V.

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

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.

PROTOCOLS

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