SANTA CRUZ BIOTECHNOLOGY, INC.

ICAM-3 (ICO-60): sc-52426



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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- Hayflick, J.S., Kilgannon, P. and Gallatin, W.M. 1998. The intercellular adhesion molecule (ICAM) family of proteins. New members and novel functions. Immunol. Res. 17: 313-327.
- Bell, E.D., May, A.P. and Simmons, D.L. 1998. The leukocyte functionassociated antigen-1 (LFA-1)-binding site on ICAM-3 comprises residues on both faces of the first immunoglobulin domain. J. Immunol. 161: 1363-1370.
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CHROMOSOMAL LOCATION

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

SOURCE

ICAM-3 (ICO-60) is a mouse monoclonal antibody raised against ICAM-3 of human origin.

STORAGE

Store at 4° C, **D0 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 100 $\mu g~lgG_1$ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

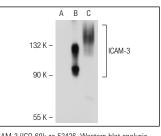
ICAM-3 (ICO-60) is recommended for detection of ICAM-3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and flow cytometry (1 μ g per 1 x 10⁶ cells).

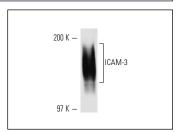
Suitable for use as control antibody for ICAM-3 siRNA (h): sc-35628, ICAM-3 shRNA Plasmid (h): sc-35628-SH and ICAM-3 shRNA (h) Lentiviral Particles: sc-35628-V.

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 (ICO-60): sc-52426. Western blot analysis of ICAM-3 expression in non-transfected 2931: sc-117752 (**A**), human ICAM-3 transfected 2931: sc-116577 (**B**) and human PBL (**C**) whole cell lysates ICAM-3 (ICO-60): sc-52426. Western blot analysis of ICAM-3 expression in human PBL whole cell lysate.

PROTOCOLS

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