

ICAM-3 (6D278): sc-71310

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 α L/ β 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 (6D278) is a mouse monoclonal antibody raised against granulocytes 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 μ g IgG₁ in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as phycoerythrin (sc-71310 PE) or fluorescein (sc-71310 FITC) conjugates for flow cytometry, 100 tests.

APPLICATIONS

ICAM-3 (6D278) is recommended for detection of an epitope in the D2 domain of ICAM-3 of human origin by 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).

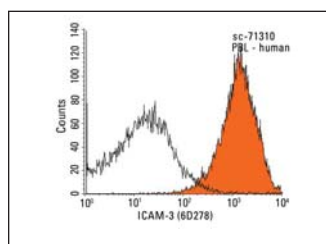
Suitable for use as control antibody for ICAM-3 siRNA (h): sc-35628, ICAM-3 shRNA Plasmid (h): sc-35628-SH and ICAM-3 shRNA (h) Lentiviral Particles: sc-35628-V.

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

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



ICAM-3 (6D278): sc-71310. Indirect FCM analysis of human peripheral blood leukocytes stained with ICAM-3 (6D278), followed by PE-conjugated goat anti-mouse IgG₁: sc-3764. Black line histogram represents the isotype control, normal mouse IgG₁: sc-3877.

PROTOCOLS

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