

# ICAM-3 (101-1D2): sc-21776

## 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 (101-1D2) is a mouse monoclonal antibody raised against human leukocytes.

## PRODUCT

Each vial contains 200  $\mu$ g IgG<sub>2a</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ICAM-3 (101-1D2) is available conjugated to either phycoerythrin (sc-21776 PE) or fluorescein (sc-21776 FITC), 200  $\mu$ g/ml, for IF, IHC(P) and FCM.

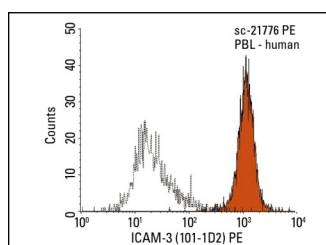
## APPLICATIONS

ICAM-3 (101-1D2) is recommended for detection of ICAM-3 of human origin by flow cytometry (1  $\mu$ g per 1 x 10<sup>6</sup> 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.

## DATA



ICAM-3 (101-1D2) PE: sc-21776 PE. FCM analysis of human peripheral blood leukocytes. Black line histogram represents the isotype control, normal mouse IgG<sub>2a</sub>: sc-3878.

## 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](http://www.scbt.com) for detailed protocols and support products.