

# DNAM-1 (11A8): sc-53581

## BACKGROUND

The T cell antigen receptor (TCR) recognizes foreign antigens and translates such recognition events into intracellular signals that elicit a change in the cell from a dormant to an activated state. Additional proteins termed "accessory molecules" are also required for activation and for cytotoxic T lymphocyte (CTL)-mediated cytotoxicity. For instance, CD2, CD4, CD8, LFA-1 and CD28 are examples of well characterized accessory molecules. An accessory molecule designated DNAX accessory molecule-1, or DNAM-1, has been described. DNAM-1 is a transmembrane glycoprotein that is 318 amino acids in length and contains two immunoglobulin-like domains. DNAM-1 is expressed on both T cells and natural killer (NK) cells and participates in primary adhesion during CTL-mediated cytotoxicity.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: CD226 (human) mapping to 18q22.2.

## SOURCE

DNAM-1 (11A8) is a mouse monoclonal antibody raised against NK cell lines of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

DNAM-1 (11A8) is available conjugated to either phycoerythrin (sc-53581 PE) or fluorescein (sc-53581 FITC), 200  $\mu$ g/ml, for IF, IHC(P) and FCM.

## APPLICATIONS

DNAM-1 (11A8) is recommended for detection of DNAM-1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)] and flow cytometry (1  $\mu$ g per  $1 \times 10^6$  cells).

Suitable for use as control antibody for DNAM-1 siRNA (h): sc-35202, DNAM-1 shRNA Plasmid (h): sc-35202-SH and DNAM-1 shRNA (h) Lenti-viral Particles: sc-35202-V.

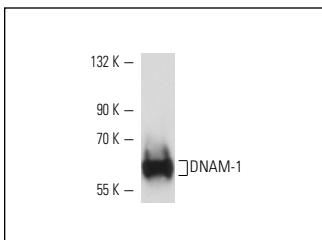
Molecular Weight of DNAM-1: 65 kDa.

Positive Controls: CCRF-CEM cell lysate: sc-2225, Jurkat whole cell lysate: sc-2204 or human platelet whole cell lysate: sc-363773.

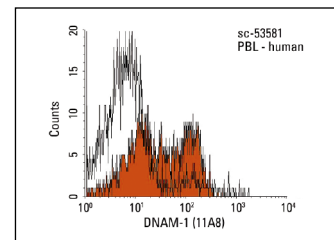
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

## DATA



DNAM-1 (11A8): sc-53581. Western blot analysis of DNAM-1 expression in human platelet whole cell lysate.



DNAM-1 (11A8): sc-53581. Indirect FCM analysis of human peripheral blood leukocytes stained with DNAM-1 (11A8), followed by PE-conjugated goat anti-mouse IgG: sc-3738. Black line histogram represents the isotype control, normal mouse IgG: sc-3877.

## 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.