

DC-SIGN Antibody

DC-SIGN (5D7): Dendritic cell-specific ICAM-3-grabbing nonintegrin 1

CATALOG NO.: PM-2347

BACKGROUND:

Dendritic cells (DCs) that control immune responses were recently found to capture and transport HIV from the mucosal area to remote lymph nodes (1), where DCs hand over HIV to CD4⁺ T lymphocytes. DCs also amplify the amount of virus and extend the duration of viral infectivity. Multiple strains of HIV-1, HIV-2 and SIV bind to DCs via DC-SIGN (2). ICAM-3 is the natural ligand for DC-SIGN (3). A DC-SIGN homologue (termed DC-SIGNR, L-SIGN, and DC-SIGN2) was identified recently (4-8). DC-SIGN forms a novel gene family with DC-SIGNR and many alternatively spliced isoforms of DC-SIGN and DC-SIGNR (8). The expression of DC-SIGN was found in mucosal tissues including placenta, small intestine, and rectum.

SOURCE:

Mouse monoclonal DC-SIGN antibody was raised against a recombinant His-tagged protein fragment corresponding to the extracellular region of human DC-SIGN (1). DC-SIGN antibody was purified from ascites from hybridoma clone 5D7.

APPLICATION:

DC-SIGN antibody can be used for detection of DC-SIGN in immunoblots at 1 – 2 µg/ml and in immunohistochemistry at 5 – 10 µg/ml. (Optimal dilutions should be determined by user.) Human uterus and lymph node can be used as positive controls. DC-SIGN antibody is human specific.

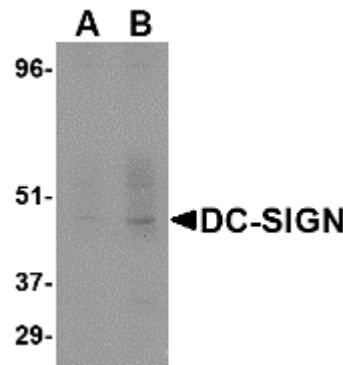
For research use only.

STORAGE:

DC-SIGN antibody is supplied as immunoaffinity chromatography purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.

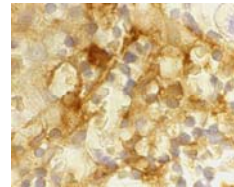
RELATED PRODUCTS:

Human uterus tissue lysate, Catalog No. **1317**.
DC-SIGN antibody (8B6), Catalog No. **PM2348**.
DC-SIGN antibody (CT), Catalog No. **2347**.
DC-SIGN antibody (ED), Catalog No. **2349**.



Western blot detection of DC-SIGN fusion protein in human placenta at (A) 1 and (B) 2 µg/ml.

Immunohistochemistry of DC-SIGN in lymph node tissue with DC-SIGN antibody at 5 µg/ml.



REFERENCES:

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Inter-individual variation in expression of DC-SIGN transcripts. *J Biol Chem.* 2001; 276:33196-212. (RD0406)