

Datasheet for 600-401-AT8**DC-SIGN Antibody****Overview**

Description:	Anti-DC-SIGN (RABBIT) Antibody - 600-401-AT8
Item No.:	600-401-AT8
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Dendritic cells (DCs) that control immune responses were recently found to capture and transport HIV from the mucosal area to remote lymph nodes, 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. ICAM-3 is the natural ligand for DC-SIGN. A DC-SIGN homologue (termed DC-SIGNR, L-SIGN, and DC-SIGN2) was identified recently. DC-SIGN forms a novel gene family with DC-SIGNR and many alternatively spliced isoforms of DC-SIGN and DC-SIGNR. The expression of DC-SIGN was found in mucosal tissues including placenta, small intestine, and rectum.
Synonyms:	DC-SIGN Antibody, CDSIGN, CLEC4L, DC-SIGN, DC-SIGN1, CD209 antigen, C-type lectin domain family 4 member L
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CD209
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-DC-SIGN antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids near the internal region of human DC-DIGN.
Purity/Specificity:	Anti-DC-SIGN Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with DC-SIGN from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9NNX6 • GeneID - 30835 • NCBI - NP_001138365.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-DC-SIGN Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 46 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	20 µg/mL
IHC:	10 µg/mL
WB:	1-2 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

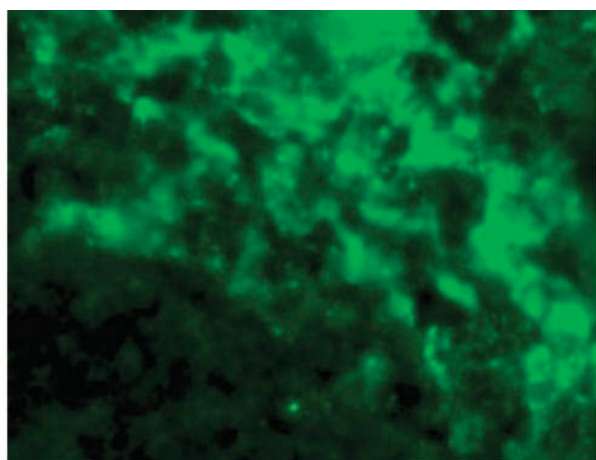
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

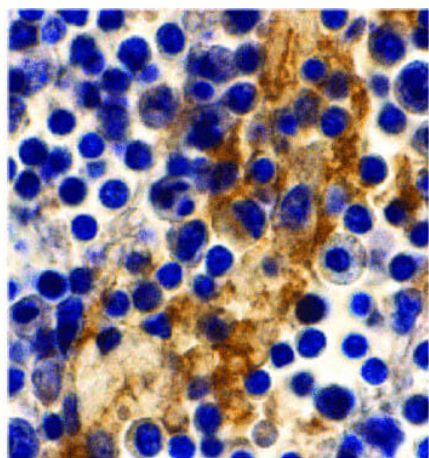
Expiration: Expiration date is one (1) year from date of receipt.

Images



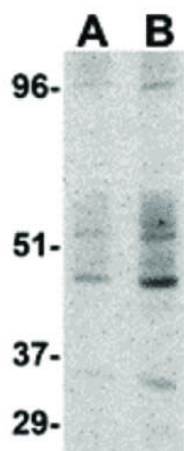
Immunofluorescence Microscopy

Immunofluorescence Microscopy of DC-SIGN antibody.
 Tissue: Human lymph node cells. Fixation: 0.5% PFA.
 Antigen retrieval: not required. Primary antibody: DC-SIGN antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: DC-SIGN is localized in the cell membrane. Staining: DC-SIGN as green fluorescent signal.



Immunohistochemistry

Immunohistochemistry of DC-SIGN antibody. Tissue: Human lymph node tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: DC-SIGN antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: DC-SIGN is localized in the cell membrane. Staining: DC-SIGN as precipitated brown signal with hematoxylin blue nuclear counterstain.

**Western Blot**

Western Blot of DC-SIGN antibody. Lane 1: Human small intestine cell lysate with DC-SIGN at 1 μg /mL. Lane 2: Human small intestine cell lysate with DC-SIGN at 2 μg /mL. Load: 35 μg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 45.8 kDa, 47 kDa for DC-SIGN. Other band(s): DC-SIGN splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.