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Datasheet for 200-301-AU0

DC-SIGN Antibody [8B6]

Overview

Description:	Anti-DC-SIGN (MOUSE) Antibody - 200-301-AU0
Item No.:	200-301-AU0
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human
Host Species:	Mouse

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 are known to exist. The expression of DC-SIGN was found in mucosal tissues including placenta, small intestine, and rectum.
Synonyms:	DC-SIGN Antibody [8B6] , CDSIGN, CLEC4L, DC-SIGN, DC-SIGN1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	[8B6]

Target Details

Gene Name:	CD209
Reactivity:	Human
Immunogen Type:	Recombinant Protein
Immunogen:	Anti-DC-SIGN antibody was produced by repeated immunizations in mice with recombinant His-tagged protein fragment corresponding to the extracellular region of human DC-SIGN.

Purity/Specificity:	Anti-DC-SIGN Monoclonal Antibody was immunoaffinity chromatography purified IgG.. Cross reactivity with DC-SIGN [8B6] from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9NNX6 • GeneID - 30835 • NCBI - NP_001138365.1

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-DC-SIGN Antibody has been tested for use in ELISA, Western Blotting, and Immunohistochemistry. 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. Validated in human samples. All other applications and species not yet tested.
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
IHC:	5-10 µg/mL
WB:	1-2 µg/mL

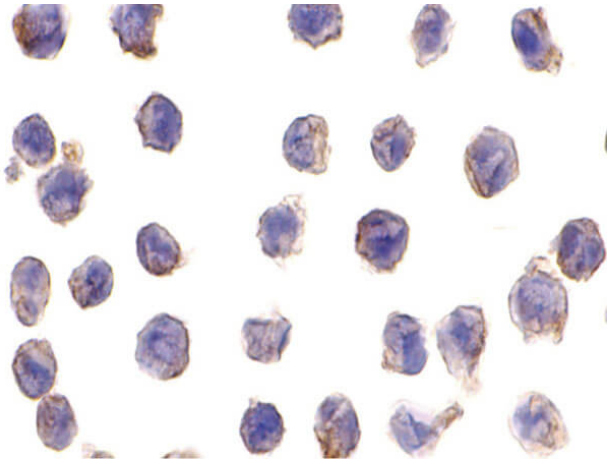
Formulation

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

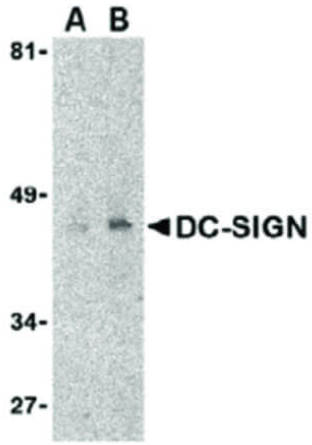
Shipping & Handling

Shipping Condition:	Dry Ice
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



Immunohistochemistry
Immunohistochemistry of Mouse anti-DC-SIGN antibody. Tissue: human lymph node tissue. Primary antibody: DC-SIGN antibody at 10 µg/mL. Secondary antibody: Peroxidase Mouse secondary antibody. Localization: DC-SIGN is located on the membrane and is secreted.



Western Blot
Western Blot of Mouse anti-DC-SIGN antibody. Lane A: human uterus tissue lysate at 1 µg/mL. Lane B: human uterus tissue lysate at 2 µg/mL. Primary antibody: DC-SIGN antibody overnight at 4℃. Secondary antibody: mouse HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 45 with 8 isoforms kDa, 46 kDa for DC-SIGN.

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