

Datasheet for 600-301-G94**DC-SIGN Monoclonal Antibody****Overview**

Description:	Anti-DC-SIGN (MOUSE) Monoclonal Antibody - 600-301-G94
Item No.:	600-301-G94
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	DC-SIGN Monoclonal antibody detects human DC-SIGN. 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. Anti-DC-SIGN Monoclonal antibodies are ideal for investigators involved in infectious disease research.
Synonyms:	DC-SIGN (5D7), Dendritic cell-specific ICAM-3-grabbing nonintegrin 1, CLEC4L
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	5D7
Format:	IgG

Target Details

Gene Name:	CD209
Reactivity:	Human

Immunogen Type:	Recombinant Protein
Immunogen:	DC-SIGN monoclonal antibody was produced in mice by repeated immunizations with a recombinant His-tagged protein fragment corresponding to the extracellular region of human DC-SIGN.
Purity/Specificity:	Anti-DC-SIGN Monoclonal Antibody was Protein A Purified. A BLAST analysis was used to suggest cross-reactivity with DC-SIGN with Human based on 100% homology with the immunizing sequence. Cross-reactivity with DC-SIGN from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9UBN6 • GenelD - 8793

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-DC-SIGN Monoclonal Antibody is suitable for use in ELISA, Western Blot, and Immunohistochemistry. Expect a band approximately ~45.7 kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user. 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.
IHC:	5-10µg/mL
WB:	1-2 ug/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide

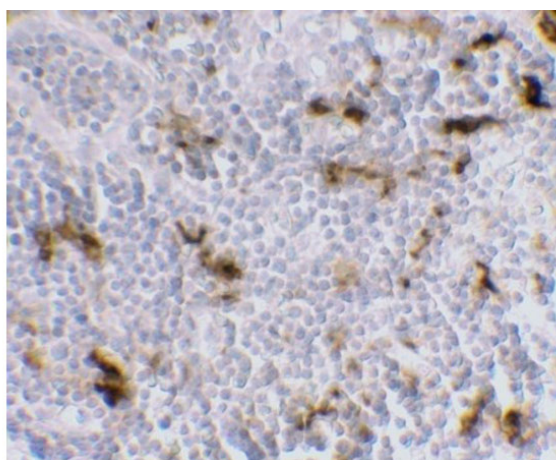
Shipping & Handling

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

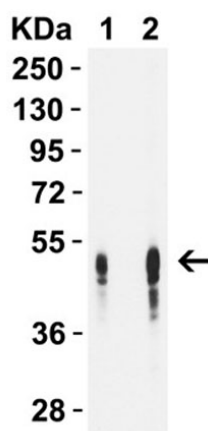


Immunohistochemistry

Immunohistochemistry of DC-SIGN.

Tissue: human lymph node tissue.

Primary Antibody: DC-SIGN antibody at 5 µg/mL.



Western Blot

Western Blot of DC-SIGN.

Load: 10 µg of human lymph node lysate per lane.

Primary Antibody: DC-SIGN at (lane 1: 1µg/mL, lane 2: 2µg/mL) for 1h incubation at RT in 5% NFDm/TBST.

Secondary: Goat anti-mouse IgG HRP conjugate at 1:5000 dilution.

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.