9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

# 10-10020: Monoclonal Antibody to Dc-Sign/CD 209 (Clone: ABM47B7)

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|---|---|
| **Clonality :** | Monoclonal |
| **Clone Name :** | ABM47B7 |
| **Application :** | FACS,WB |
| **Reactivity :** | Human |
| **Gene :** | CD209 |
| **Gene ID :** | 30835 |
| **Uniprot ID :** | Q9NNX6 |
| **Format :** | Purified |
| **Alternative Name :** | CD209,CLEC4L |
| **Isotype :** | Mouse IgG2b Kappa |
| **Immunogen Information :** | A recombinant protein fragment of DC-Sign protein was used as the immunogen for this antibody. |

## Description

Dendritic cell-specific intercellular adhesion molecule-3-grabbing non-integrin (DC-SIGN) is a tetrameric C-type (calcium-dependent) lectin that binds, through its C-terminal carbohydrate recognition domain, high mannose N-linked glycans present on the surface of several viral glycoproteins such as human immunodeficiency virus (HIV) gp120 and hepatitis C virus (HCV) E2. It facilitates DC-specific delivery of Ag. This is accomplished by conjugating Ag to receptor-specific Ab or carbohydrate ligands that bind to its carbohydrate recognition domain. In humans, DC-SIGN expression is restricted to DCs and certain types of macrophages. DC-SIGN is involved in the innate immune system and recognizes numerous evolutionarily divergent pathogens, including viruses, bacteria, fungi, and parasites. After binding, these pathogens are internalized and pathogen-derived antigens are presented via MHC class I and II molecules to CD8+ and CD4+ T cells, respectively. DC-SIGN represents a promising CLR for targeted vaccine delivery.

## Product Info

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| **Amount :** | 25 µg / 100 µg |
| **Purification :** | Protein G Chromatography |
| **Content :** | 25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic. |
| **Storage condition :** | Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles. |

## Application Note

Western blot analysis: 0.1-0.5 µg/ml; FACS: 0.5-1 µg/10^6 Cells

**Reference for expression of Dc-Sign:**

Wai K. Lai, Phoebe J. Sun, Jie Zhang, Adam Jennings, Patricia F. Lalor, Stefan Hubscher,Jane A. McKeating,and David H. Adams. Expression of DC-SIGN and DC-SIGNR on Human Sinusoidal Endothelium Am J Pathol. 2006 Jul; 169(1): 200–208.doi: 10.2353/ajpath.2006.051191

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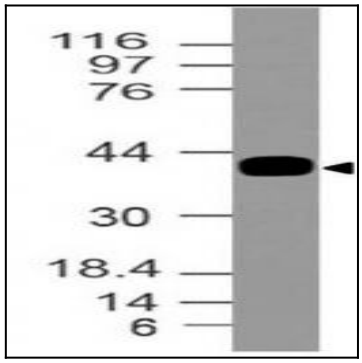



Fig-1: Expression analysis of Dc-Sign. Anti-Dc-Sign antibody (Clone: ABM47B7) was tested at 0.1 µg/ml on partial length recombinant protein.

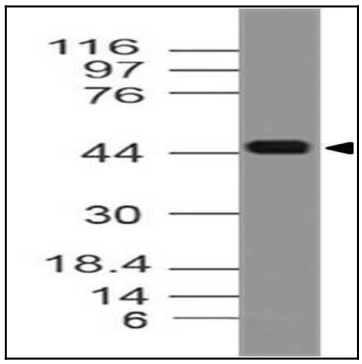



Fig-2: Expression analysis of Dc-Sign. Anti-Dc-Sign antibody (Clone: ABM47B7) was tested at 0.1 µg/ml on human Liver lysate.

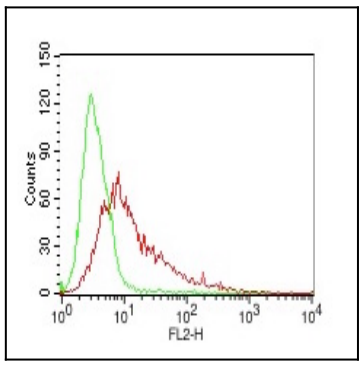



Fig-3: Cell Surface FLOW analysis of Dc-Sign antibody (10-10020) in 293HEK-Dc-sign stable cell line using 0.5 µg/ 10^6 cells. Green represents isotype control, red represents anti- Dc-Sign antibody. Goat anti-mouse PE conjugates was used as secondary antibody.

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