

ABGENEX Pvt. Ltd., E-5, Infocity, KIIT Post Office, Tel: +91-674-2720712, +91-9437550560 Email: info@abgenex.com Bhubaneswar, Odisha - 751024, INDIA

10-10020: Monoclonal Antibody to Dc-Sign/CD209 (Clone: ABM47B7)

Clonality: Monoclonal Clone Name: ABM47B7 Application: FACS,WB Reactivity: Human Gene: CD209 30835 Gene ID: **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

Amount : $25 \mu g / 100 \mu g$

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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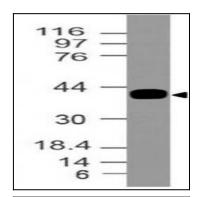


Fig-1: Expression analysis of Dc-Sign. Anti-Dc-Sign antibody (Clone: ABM47B7) was tested at $0.1~\mu g/ml$ on partial length recombinant protein.

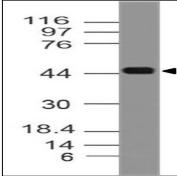


Fig-2: Expression analysis of Dc-Sign. Anti-Dc-Sign antibody (Clone: ABM47B7) was tested at 0.1 μ g/ml on human Liver lysate.

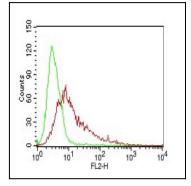


Fig-3: Cell Surface FLOW analysis of Dc-Sign antibody (10-10020) in 293HEK-Dc-sign stable cell line using 0.5 μ g/ 10^6 cells. Green represents isotype control, red represents anti- Dc-Sign antibody. Goat anti-mouse PE conjugates was used as secondary antibody.