

# Anti-DC-SIGN Antibody [JE31-24]

HA721382



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB
<b>Molecular Wt:</b>	Predicted band size: 46 kDa
<b>Clone number:</b>	JE31-24

**Description:** DC-SIGN (Dendritic Cell-Specific Intercellular adhesion molecule-3-Grabbing Non-integrin) also known as CD209 (Cluster of Differentiation 209) is a protein which in humans is encoded by the CD209 gene. DC-SIGN is a C-type lectin receptor present on the surface of both macrophages and dendritic cells. DC-SIGN on macrophages recognises and binds with high affinity to high-mannose type N-glycans, a class of PAMPs (pathogen associated molecular patterns) commonly found on viruses, bacteria and fungi. This binding interaction activates phagocytosis. On myeloid and pre-plasmacytoid dendritic cells DC-SIGN mediates dendritic cell rolling interactions with blood endothelium and activation of CD4<sup>+</sup> T cells, as well as recognition of pathogen haptens. DC-SIGN is a C-type lectin and has a high affinity for the ICAM3 molecule. It binds various microorganisms by recognizing high-mannose-containing glycoproteins on their surface, and can function as a co-receptor for several viruses such as HIV and Hepatitis C. Binding to DC-SIGN can promote HIV and Hepatitis C virus to infect target cells (T-cells and hepatocytes, respectively). Besides functioning as an adhesion molecule, recent studies have also shown that DC-SIGN can initiate innate immunity by modulating toll-like receptors, though the detailed mechanism is not yet known. DC-SIGN together with other C-type lectins is involved in recognition of tumors by dendritic cells. DC-SIGN is also a potential engineering target for dendritic cell based cancer vaccine.

**Immunogen:** Recombinant protein within Human DC-SIGN aa 1-100 / 404.

**Positive control:** A549 cell lysate, human skin tissue lysate, human placenta tissue lysate.

**Subcellular location:** Cell membrane; Secreted.

**Database links:** SwissProt: Q9NNX6 Human

**Recommended Dilutions:**

**WB** 1:1,000

**Storage Buffer:** 1\*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% SodiumAzide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

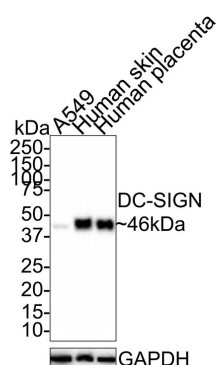
## Images

**Fig1:** Western blot analysis of DC-SIGN on different lysates with Rabbit anti-DC-SIGN antibody (HA721382) at 1/1,000 dilution.

Lane 1: A549 cell lysate (15 µg/Lane)

Lane 2: Human skin tissue lysate (30 µg/Lane)

Lane 3: Human placenta tissue lysate (30 µg/Lane)



Predicted band size: 46 kDa

Observed band size: 46 kDa

Exposure time: 3 minutes;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721382) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. Sales Pereira LH et al. Soluble DC-SIGN isoforms: Ligands with unknown functions - A mini-review. Microb Pathog. 2021 Jan
2. Xiaocui L et al. CSF-1-induced DC-SIGN+ macrophages are present in the ovarian endometriosis. Reprod Biol Endocrinol. 2022 Mar

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