

# DC-SIGNR/CD299 Rabbit mAb

**Catalog No.: A23121** Recombinant

## Basic Information

**Observed MW**

45kDa

**Calculated MW**

24-45kDa

**Category**

Primary antibody

**Applications**

ELISA,WB,IF/ICC,FC

**Cross-Reactivity**

Human

**CloneNo number**

ARC59314

## Background

This gene encodes a C-type lectin that functions in cell adhesion and pathogen recognition. This receptor recognizes a wide range of evolutionarily divergent pathogens with a large impact on public health, including tuberculosis mycobacteria, and viruses including Ebola, hepatitis C, HIV-1, influenza A, West Nile virus and the SARS-CoV acute respiratory syndrome coronavirus. The protein is organized into four distinct domains: a C-terminal carbohydrate recognition domain, a flexible tandem-repeat neck domain of variable length, a transmembrane region and an N-terminal cytoplasmic domain involved in internalization. This gene is closely related in terms of both sequence and function to a neighboring gene, CD209 (Gene ID: 30835), also known as DC-SIGN. The two genes differ in viral recognition and expression patterns, with this gene showing high expression in endothelial cells of the liver, lymph node and placenta. Polymorphisms in the tandem repeat neck domain are associated with resistance to SARS infection.

## Recommended Dilutions

<b>WB</b>	1:1000 - 1:5000
<b>IF/ICC</b>	1:50 - 1:200
<b>FC</b>	1:500 - 1:1000

## Immunogen Information

**Gene ID**

10332

**Swiss Prot**

Q9H2X3

**Immunogen**

Recombinant fusion protein containing a sequence corresponding to amino acids 71-399 of human DC-SIGNR/CD299 (NP\_055072.3).

**Synonyms**

CD299; LSIGN; CD209L; L-SIGN; DCSIGNR; HP10347; DC-SIGN2; DC-SIGNR; CD299/DC-SIGNR

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

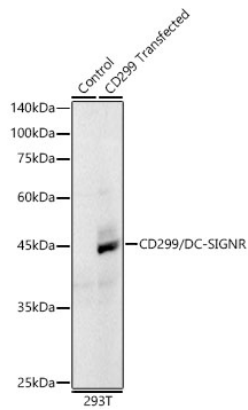
Affinity purification

**Storage**

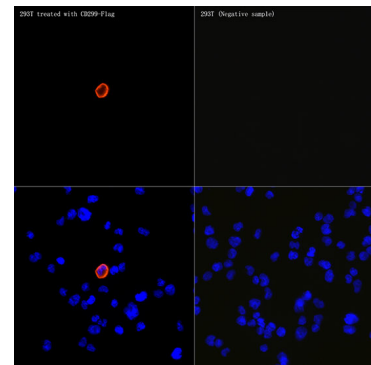
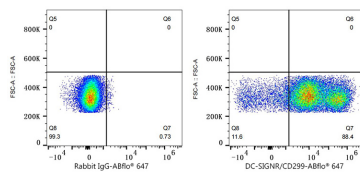
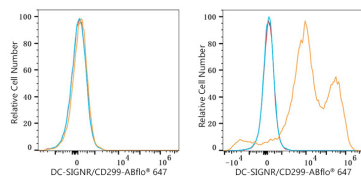
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

## Validation Data



Western blot analysis of lysates from control 293T and CD299-293T transfected cells, using DC-SIGNR/CD299 Rabbit mAb (A23121) at 1:3000 dilution.  
 Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 90s.



Flow cytometry:  $1 \times 10^6$  293T cells (negative control, left) and 293T (Transfection, right) cells were surface-stained with DC-SIGNR/CD299 Rabbit mAb (A23121, 2 µg/mL, orange line) or ABRlo® 647 Rabbit IgG isotype control (A22070, 5 µg/mL, blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).

Flow cytometry:  $1 \times 10^6$  293T (Transfection) cells were surface-stained with ABRlo® 647 Rabbit IgG isotype control (A22070, 5 µg/mL, left) or DC-SIGNR/CD299 Rabbit mAb (A23121, 2 µg/mL, right).

Immunofluorescence analysis of CD299+293T transfected and control 293T cells using DC-SIGNR/CD299 Rabbit mAb (A23121) at dilution of 1:200 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.