CD209
Synthetic Human Dendritic Cell ICAM-3 Grabbing Nonintegrin/CD209 (aa 384-404)(CT) Blocking Peptide

Catalog No.	PX203BP	**Quantity:**	50 µg

Alternate Names: CDSIGN, CLEC4L, DC-SIGN, DC-SIGN1, MGC129965, C-type lectin domain family 4, member L, CD209 antigen, HIV gpl20-binding protein, dendritic cell-specific intracellular adhesion molecules (ICAM)-3 grabbing non-integrin

Description: CD209 is a transmembrane receptor and is often referred to as DC-SIGN because of its expression on the surface of dendritic cells and macrophages. The encoded protein is involved in the innate immune system and recognizes numerous evolutionarily divergent pathogens ranging from parasites to viruses with a large impact on public health. The protein is organized into three distinct domains: an N-terminal transmembrane domain, a tandem-repeat neck domain and C-type lectin carbohydrate recognition domain. The extracellular region consisting of the C-type lectin and neck domains has a dual function as a pathogen recognition receptor and a cell adhesion receptor by binding carbohydrate ligands on the surface of microbes and endogenous cells. The neck region is important for homo-oligomerization which allows the receptor to bind multivalent ligands with high avidity. Variations in the number of 23 amino acid repeats in the neck domain of this protein are rare but have a significant impact on ligand binding ability.

Gene ID: 30835

Application: The peptide is used for blocking the antibody activity of DC-SIGN. The peptide with equal volume of antibody for 30 min at 37°C usually completely blocks the antibody activity in Western blotting.

Formulation: It is supplied as 200 µg/ml, 50 µg/vial , in PBS pH7.2 (10 mM NaH_2PO_4, 10 mM, Na_2HPO_4, 130 mM NaCl) containing 0.1% bovine serum albumin and 0.02% sodium azide.. **Precaution:** Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.

Sequence: NH_2-CSRDEEQFLSPAPATPNPPPA-OH

Storage & Stability: Store at -20°C, stable for one year.

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Cell Sciences®
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Website: www.cellsciences.com