

CD209 elisa kit

Human CD209 PicoKine ELISA Kit

CATALOG # AAA124877	REACTIVITY Human There is no detectable cross-reactivity with other relevant proteins.	APPLICATIONS ELISA
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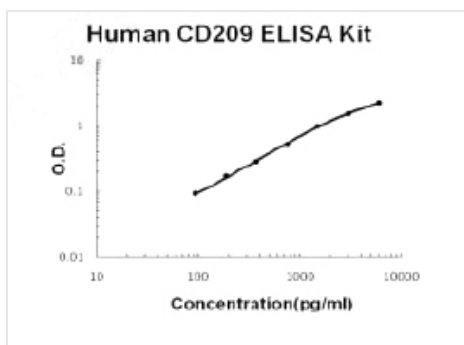
PRODUCT SYNONYMS

CD209; Human CD209 PicoKine ELISA Kit; CD209 antigen; C-type lectin domain family 4 member L; Dendritic cell-specific ICAM-3-grabbing non-integrin 1; DC-SIGN; DC-SIGN1; CLEC4L; CD209 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human There is no detectable cross-reactivity with other relevant proteins.
Specificity	Natural and recombinant Human CD209
Sequence Length	297
Assay Type	Quantitative Sandwich
Detection Range	93.7pg/ml-6000pg/ml
Sensitivity	<10pg/ml
Applicable Applications for CD209 elisa kit	ELISA
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CD209 elisa kit	Principle of the Assay: Human CD209 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CD209 has been precoated onto 96-well plates. Standards(Expression system for standard: NSO, Immunogen sequence: Q59-A404) and test samples are added to the wells, a biotinylated detection biotinylated polyclonal antibody from goat specific for CD209 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Human CD209 amount of sample captured in plate. Background: 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. This gene encodes 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. This gene is closely related in terms of both sequence and function to a neighboring gene. DC-SIGN and L-SIGN differ in their ligand-binding properties and distribution. Alternative splicing results in multiple variants.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	223029380
NCBI GeneID	30835
NCBI Accession #	NP_001138365.1
NCBI GenBank Nucleotide #	NM_001144893.1
UniProt Accession #	Q9NNX6; Q2TB19; Q96QP7; Q96QP8; Q96QP9; Q96QQ0; Q96QQ1; Q96QQ2; Q96QQ3; A8KAM4; A8MVQ9; G5E9C4
Molecular Weight	33,874 Da
NCBI Official Full Name	CD209 antigen isoform 5
NCBI Official Synonym Full Names	CD209 molecule
NCBI Official Symbol	CD209
NCBI Official Synonym Symbols	CDSIGN; CLEC4L; DC-SIGN; DC-SIGN1
NCBI Protein Information	CD209 antigen
UniProt Protein Name	CD209 antigen
UniProt Gene Name	CD209
UniProt Synonym Gene Names	CLEC4L; DC-SIGN; DC-SIGN1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.