

Human CD9 (CD9 antigen) ELISA Kit | CD9 elisa kit

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CATALOG #
AAA27597

REACTIVITY
Human

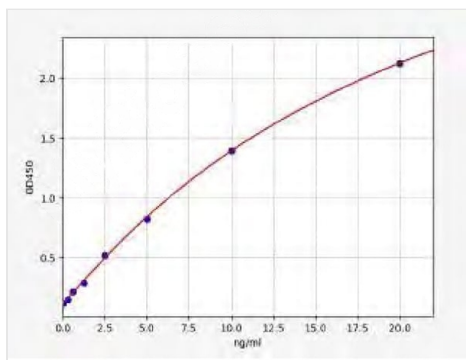
PRODUCT SYNONYMS

CD9 (CD9 antigen); Human CD9 (CD9 antigen) ELISA Kit; CD9 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize CD9, no obvious cross reaction with other analogues
Sequence Length	226
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	0.313-20ng/ml
Sensitivity	0.188ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CD9 elisa kit	Background: The CD9 antigen belongs to the tetraspanin family of cell surface glycoproteins, and is characterized by four transmembrane domains, one short extracellular domain (ECL1), and one long extracellular domain (ECL2). Tetraspanins interact with a variety of cell surface proteins and intracellular signaling molecules in specialized tetraspanin-enriched microdomains (TEMs), where they mediate a range of processes including adhesion, motility, membrane organization, and signal transduction. CD9 was also shown to play a role in dendritic cell migration, megakaryocyte differentiation, and homing of cord blood CD34+ hematopoietic progenitors to the bone marrow. In addition, downregulation of CD9 expression is associated with poor prognosis and progression of several types of cancer. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti CD9 antibody was precoated onto the 96-well plate. The biotin conjugated anti CD9 antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with CD9 conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of CD9 in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	148229054
NCBI GeneID	24936
NCBI Accession #	NP_444177.1
NCBI GenBank Nucleotide #	NM_053018.1
UniProt Accession #	P40241
Molecular Weight	25,215 Da
NCBI Official Full Name	CD9 antigen
NCBI Official Synonym Full Names	CD9 molecule
NCBI Official Symbol	Cd9
NCBI Protein Information	CD9 antigen
UniProt Protein Name	CD9 antigen
UniProt Gene Name	Cd9

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.