

Human SDC1/Syndecan-1 ELISA Kit | SDC1 elisa kit

Human SDC1/Syndecan-1 PicoKine ELISA Kit

CATALOG #
AAA45877

REACTIVITY
Human

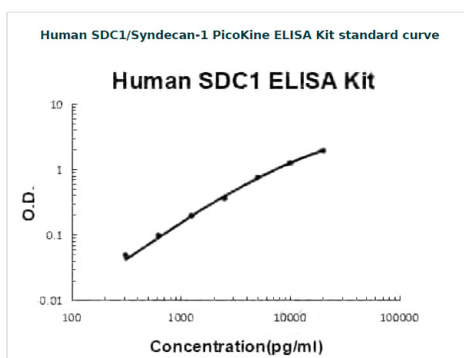
PRODUCT SYNONYMS

SDC1/Syndecan-1; Human SDC1/Syndecan-1 PicoKine ELISA Kit; Syndecan-1; syndecan 1; CD 138; CD_antigen; CD138; CD138 antigen; Heparan sulfate proteoglycan fibroblast growth factor receptor; SDC 1; SDC; SDC1; SDC1_HUMAN; SYND 1; SYND1; Syndecan 1; syndecan proteoglycan 1; syndecan1; Syndecan1 precursor; SDC1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human SDC1
Sequence Length	310
Samples	Cell culture supernatants and serum
Detection Range	312 pg/ml - 20,000 pg/ml
Sensitivity	<10 pg/ml
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 across 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 (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SDC1 elisa kit	Principle of the Assay: The Picokine™ Human SDC1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human SDC1 with a 96-well strip plate that is pre-coated with antibody specific for SDC1. The detection antibody is a biotinylated antibody specific for SDC1. The capture antibody is monoclonal antibody from mouse and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human SDC1 with immunogen: Expression system for standard: NS0; Immunogen sequence: Q23-G254. The kit is analytically validated with ready-to-use reagents. To measure Human SDC1, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human SDC1 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human SDC1 in the sample. Background/Introduction: Syndecan 1, also known as SYND1 or CD138, is a protein which in humans is encoded by the SDC1 gene. The protein encoded by this gene is a transmembrane (type I) heparan sulfate proteoglycan and is a member of the syndecan proteoglycan family. This gene is mapped to 2p24.1. The syndecans mediate cell binding, cell signaling, cytoskeletal organization and syndecan receptors are required for internalization of the HIV-1 tat protein. The syndecan 1 protein functions as an integral membrane protein and participates in cell proliferation, cell migration and cell-matrix interactions via its receptor for extracellular matrix proteins. What's more, Syndecan-1 is also a sponge for growth factors, with binding largely via heparan sulfate chains.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	229463011
NCBI GeneID	6382
UniProt Accession #	P18827; Q53QV0; Q546D3; Q96HB7; D6W523; AAB21434; AAB23935
Molecular Weight	32,462 Da
NCBI Official Full Name	Syndecan-1
NCBI Official Synonym Full Names	syndecan 1
NCBI Official Symbol	SDC1
NCBI Official Synonym Symbols	SDC; CD138; SYND1; syndecan
NCBI Protein Information	syndecan-1; CD138 antigen; syndecan proteoglycan 1; heparan sulfate proteoglycan fibroblast growth factor receptor
UniProt Protein Name	Syndecan-1
UniProt Gene Name	SDC1
UniProt Synonym Gene Names	SDC; SYND1
UniProt Entry Name	SDC1_HUMAN

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.