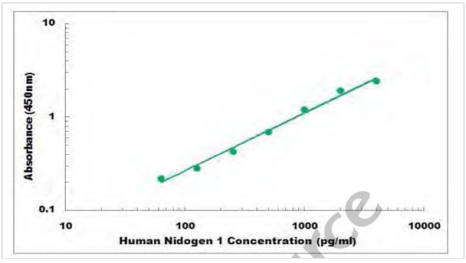
Nidogen 1 (NID1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Nidogen 1 (NID1), ELISA Kit
Full Product Name	Human Nidogen 1 ELISA Kit
Product Gene Name	NID1 elisa kit
Product Synonym Names	NID; Nidogen-1; NID-1; Entactin
Species Reactivity	Human
Samples	Culture Supernatants, Serum
Sensitivity	< 10 pg/ml
Specificity	The Human Nidogen 1 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human Nidogen 1 proteins within the range of 62.5 pg/ml - 4000 pg/ml.
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	122,017 Da
OMIM	131390
3D Structure	ModBase 3D Structure for P14543
Detection Method	Colorimetric
Applications Tested/Suitable for NID1 elisa kit	Sandwich ELISA (SE)
Related Product Information for NID1 elisa kit	Background: Nidogen-1 (NID-1), also known as Entactin, is a protein that in humans is encoded by the NID1 gene. It is a member of the nidogen family of basement membrane glycoproteins. This gene is mapped to 1q42.3. Nidogen-1 is a component of the basement membrane alongside other components such as collagen type IV, proteoglycans (heparan sulfate and glycosaminoglycans), laminin and fibronectin. The protein interacts with several other components of basement membranes. Structurally it (along with perlecan) connects the networks formed by collagens and laminins to each other. It may also play a role in cell interactions with the extracellular matrix. Nidogen-1 also can serve as a bridge between the 2 most abundant molecules in the basement membrane: type IV collagen and laminin. Principle of the Assay: The Human Nidogen 1 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human Nidogen 1 in Cell Culture Supernatants, Serum. This assay employs an antibody specific for Human Nidogen 1 coated on a 96-well plate. Standards and samples are pipetted into the wells and Nidogen 1 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human Nidogen 1 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Nidogen 1 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.
Other Notes	Small volumes of NID1 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for NID1 purchase	MBS824834 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Nidogen 1 (NID1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing NID1. The ELISA analytical biochemical technique of the MBS824834 kit is based on NID1 antibody-NID1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect NID1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, NID1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of NID1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NID1. It may not necessarily be applicable to this product.

NCBI GI #	115298674
NCBI GeneID	4811
NCBI Accession #	NP_002499.2
UniProt Primary Accession #	P14543
UniProt Secondary Accession #	Q14942; Q59FL2; Q5TAF2; Q5TAF3; Q86XD7
UniProt Related Accession #	P14543
GenBank Nucleotide #	NM_002508.2
NCBI Official Full Name	nidogen-1
NCBI Official Synonym Full Names	nidogen 1
NCBI Official Symbol	NID1
NCBI Official Synonym Symbols	NID
UniProt Protein Name	Nidogen-1
UniProt Synonym Protein Names	Entactin
Protein Family	Nidogen
UniProt Gene Name	NID1
UniProt Synonym Gene Names	NID; NID-1
UniProt Entry Name	NID1_HUMAN
NCBI Protein Information	nidogen-1; NID-1; enactin; entactin
NCBI Summary for NID1	This gene encodes a member of the nidogen family of basement membrane glycoproteins. The protein interacts with several other components of basement membranes, and may play a role in cell interactions with the extracellular matrix. [provided by RefSeq, Jul 2008]

UniProt Comments for NID1	Nidogen-1: Sulfated glycoprotein widely distributed in basement membranes and tightly associated with laminin. Also binds to collagen IV and perlecan. It probably has a role in cell- extracellular matrix interactions. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Secreted, signal peptide; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 1q43 Cellular Component: extracellular matrix; extracellular region; basement membrane; basal lamina Molecular Function: laminin-1 binding; collagen binding; proteoglycan binding; laminin binding; calcium ion binding Biological Process: extracellular matrix disassembly; extracellular matrix organization and biogenesis; cell-matrix adhesion; glomerular basement membrane development
Research Articles on NID1	**1.** The cleavage of nidogen-1 and -2 is partially inhibited in human tumor samples.
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