Human nephrosis 2, idiopathic, steroid-resistant (podocin) ELISA Kit | NPHS2 elisa kit

Human podocin ELISA Kit

CATALOG #	REACTIVITY
AAA79635	**Human**

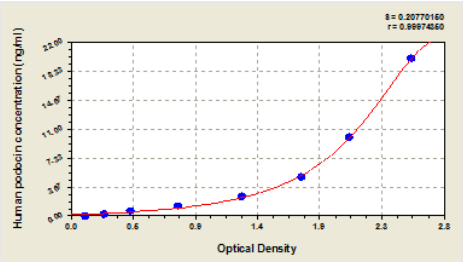
PRODUCT SYNONYMS

nephrosis 2; idiopathic; steroid-resistant (podocin); Human podocin ELISA Kit; PDCN; SRN1; podocin; NPHS2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Human NPHS2. No significant cross-reactivity or interference between Human NPHS2 and analogues was observed.
Sequence Length	383
Samples	Serum, plasma, tissue homogenates and Cell lysates
Detection Range	0.312 ng/ml-20 ng/ml
Sensitivity	0.078 ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for NPHS2 elisa kit	**Introduction:** Podocin is a protein which lines the podocytes and assists in maintaining the barrier at the glomerular basement membrane. Podocin is a new member of the stomatin family, which consists of hairpin-like integral membrane proteins with intracellular NH2- and COOH-termini. Mutations in the podocin gene NPHS2 can cause nephrotic syndrome, such as Focal Segmental Glomerulosclerosis (FSGS) or Minimal Change Disease (MCD). **Principle of the Assay:** The microtiter plate provided in this kit has been pre-coated with an antibody specific to podocin. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for podocin and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain podocin, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a 3 sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of podocin in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7657615
NCBI GeneID	7827
NCBI Accession #	NP_055440.1
NCBI GenBank Nucleotide #	NM_014625.3
UniProt Accession #	Q9NP85; Q8N6Q5; B1AM32; B1AM33
Molecular Weight	42,201 Da
NCBI Official Full Name	podocin isoform 1
NCBI Official Synonym Full Names	nephrosis 2, idiopathic, steroid-resistant (podocin)
NCBI Official Symbol	NPHS2
NCBI Official Synonym Symbols	PDCN; SRN1
NCBI Protein Information	podocin
UniProt Protein Name	Podocin
UniProt Gene Name	**NPHS2**
UniProt Entry Name	PODO_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.

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Online datasheet: https://www.aaabiotech.com/nphs2-human-elisa-kits/nephrosis-2-idiopathic-steroid-resistant-podocin/79635