



Human podocin ELISA Kit

Product Code	CSB-E09887h
Abbreviation	NPHS2
Target Name	nephrosis 2, idiopathic, steroid-resistant (podocin)
Uniprot No.	Q9NP85
Alias	PDCN, SRN1, podocin
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Signal Transduction
Gene Names	NPHS2
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human NPHS2 ELISA Kit was designed for the quantitative measurement of Human NPHS2 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL.

Target Details

This gene encodes the glomerular protein podocin which plays a role in the regulation of glomerular permeability, and acts as a linker between the plasma membrane and the cytoskeleton. Defects in this gene are the cause of autosomal recessive steroid-resistant nephrotic syndrome (SRN). SRN is characterized by onset between three months and five years, resistance to steroid therapy and rapid progression to end-stage renal disease. An alternative splice variant has been described but its full length sequence has not been determined.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%



Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human podocin in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	87
	Range %	82-93
1:2	Average %	93
	Range %	84-99
1:4	Average %	98
	Range %	94-106
1:8	Average %	93
	Range %	86-98

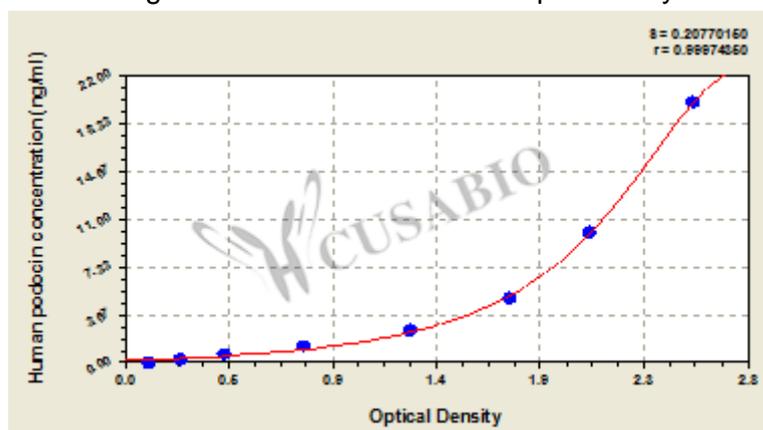
Recovery

The recovery of human podocin spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	91	84-96
EDTA plasma (n=4)	95	92-100

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
20	2.493	2.573	2.533	2.418
10	2.076	2.068	2.072	1.957
5	1.703	1.735	1.719	1.604
2.5	1.271	1.284	1.278	1.163
1.25	0.789	0.814	0.802	0.687
0.625	0.430	0.465	0.448	0.333
0.312	0.261	0.246	0.254	0.139
0	0.116	0.114	0.115	?

MsdS

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