



# Rat Nephrin ELISA Kit

<b>Product Code</b>	CSB-E13957r
<b>Abbreviation</b>	NPHS1
<b>Protein Biological Process 1</b>	Cell Adhesion
<b>Target Name</b>	nephrosis 1, congenital, Finnish type (nephrin)
<b>Uniprot No.</b>	Q9R044
<b>Alias</b>	CNF, NPHN, nephrin, nephrin renal glomerulus-specific cell adhesion receptor
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Protein Biological Process 3</b>	Cell adhesion
<b>Sample Types</b>	serum, plasma, tissue homogenates
<b>Detection Range</b>	1.25 ng/mL-80 ng/mL
<b>Sensitivity</b>	0.312 ng/mL
<b>Assay Time</b>	1-5h
<b>Sample Volume</b>	50-100ul
<b>Detection Wavelength</b>	450 nm
<b>Lead Time</b>	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
<b>Research Area</b>	Signal Transduction
<b>Gene Names</b>	Nphs1
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich
<b>Description</b>	This Rat NPHS1 ELISA Kit was designed for the quantitative measurement of Rat NPHS1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 1.25 ng/mL-80 ng/mL and the sensitivity is 0.312 ng/mL.
<b>Product Precision</b>	<p>Intra-assay Precision (Precision within an assay): CV%&lt;8%</p> <p>Three samples of known concentration were tested twenty times on one plate to assess.</p> <p>Inter-assay Precision (Precision between assays): CV%&lt;10%</p> <p>Three samples of known concentration were tested in twenty assays to assess.</p>

## Linearity



To assess the linearity of the assay, samples were spiked with high concentrations of rat Nephlin 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 %	91
	Range %	86-95
1:2	Average %	95
	Range %	91-98
1:4	Average %	95
	Range %	81-89
1:8	Average %	100
	Range %	97-103

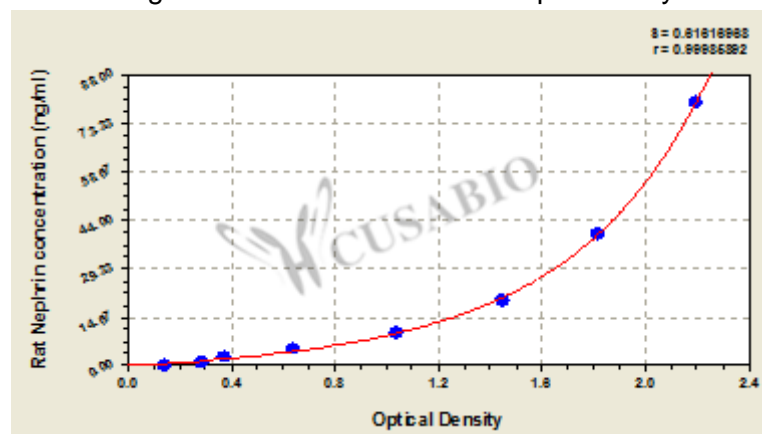
### Recovery

The recovery of rat Nephlin 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)	101	97-105
EDTA plasma (n=4)	98	95-102

### 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
80	2.215	2.194	2.205	2.049
40	1.846	1.804	1.825	1.669
20	1.444	1.468	1.456	1.300
10	1.033	1.068	1.051	0.895
5	0.634	0.671	0.653	0.497
2.5	0.373	0.398	0.386	0.230
1.25	0.297	0.298	0.298	0.142
0	0.154	0.157	0.156	

### Msds

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