

## Human nephrosis 1, congenital, Finnish type (nephrin) ELISA Kit | NPHS1 elisa kit

Human Nephrin ELISA Kit

CATALOG #  
**AAA79663**

REACTIVITY  
**Human**

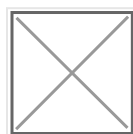
### PRODUCT SYNONYMS

nephrosis 1; congenital; Finnish type (nephrin); Human Nephrin ELISA Kit; CNF; NPHN; nephrin; renal glomerulus-specific cell adhesion receptor; NPHS1 elisa kit

### PRODUCT SPECIFICATIONS

|                              |                                                                                                                                                                                                                                                                                                                           |
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| Reactivity                   | Human                                                                                                                                                                                                                                                                                                                     |
| Specificity                  | This assay has high sensitivity and excellent specificity for detection of Human NPHS1. No significant cross-reactivity or interference between Human NPHS1 and analogues was observed.                                                                                                                                   |
| Sequence Length              | 1241                                                                                                                                                                                                                                                                                                                      |
| Samples                      | Serum, plasma, tissue homogenates                                                                                                                                                                                                                                                                                         |
| Detection Range              | 0.156 ng/ml-10 ng/ml                                                                                                                                                                                                                                                                                                      |
| Sensitivity                  | 0.039 ng/ml                                                                                                                                                                                                                                                                                                               |
| Intra-assay Precision        | Intra-assay Precision (Precision within an assay): CV% is less than 8%<br>Three samples of known concentration were tested twenty times on one plate to assess.<br>Inter-assay Precision (Precision between assays): CV% is less than 10%<br>Three samples of known concentration were tested in twenty assays to assess. |
| Detection Wavelength         | 450 nm                                                                                                                                                                                                                                                                                                                    |
| Sample Volume                | 50-100ul                                                                                                                                                                                                                                                                                                                  |
| Protein Biological Process 1 | Cell Adhesion                                                                                                                                                                                                                                                                                                             |
| Protein Biological Process 3 | Cell adhesion                                                                                                                                                                                                                                                                                                             |
| 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 NPHS1 elisa kit | <p><b>Introduction:</b> Nephlin is a protein necessary for the proper functioning of therenal filtration barrier. The renal filtration barrier consists offenestrated endothelial cells, the glomerular basementmembrane, and the podocytes of epithelial cells. Nephlin is atransmembrane protein involved with the slit diaphragm. A defectin the gene for nephlin is associated with congenital nephroticsyndrome of the Finnish type and causes massive amounts ofprotein to be leaked into the urine, or proteinuria.</p> <p><b>Principle of the Assay:</b> The microtiter plate provided in this kit has been pre-coated withan antibody specific to nephlin. Standards or samples are thenadded to the appropriate microtiter plate wells with abiotin-conjugated antibody preparation specific for nephlin andAvidin conjugated to Horseradish Peroxidase (HRP) is added toeach 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 nephlin, biotin-conjugated antibodyand enzyme-conjugated Avidin will exhibit a change in color. Theenzyme-substrate reaction is terminated by the addition of asulphuric acid solution and the color change is measuredspectrophotometrically at a wavelength of 450 nm +/- 2 nm. Theconcentration of nephlin in the samples is then determined bycomparing the O.D. of the samples to the standard curve.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                           |
|----------------------------------|-----------------------------------------------------------|
| NCBI GI #                        | 4758822                                                   |
| NCBI GeneID                      | 4868                                                      |
| NCBI Accession #                 | NP_004637.1                                               |
| NCBI GenBank Nucleotide #        | NM_004646.3                                               |
| UniProt Accession #              | O60500; A6NDH2; C3RX61                                    |
| Molecular Weight                 | 134,742 Da                                                |
| NCBI Official Full Name          | nephlin                                                   |
| NCBI Official Synonym Full Names | nephrosis 1, congenital, Finnish type (nephlin)           |
| NCBI Official Symbol             | NPHS1                                                     |
| NCBI Official Synonym Symbols    | CNF; NPHN; nephlin                                        |
| NCBI Protein Information         | nephlin; renal glomerulus-specific cell adhesion receptor |
| UniProt Protein Name             | Nephlin                                                   |
| UniProt Gene Name                | NPHS1                                                     |
| UniProt Synonym Gene Names       | NPHN                                                      |
| UniProt Entry Name               | NPHN_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.