

## Recombinant Human NPHS2 protein, His-tagged

Cat. No. NPHS2-718H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human NPHS2(Val125-Leu383) fused with His tag at C-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	125-383 a.a.
<b>Description</b>	Nephrosis 2 Idiopathic Steroid-Resistant (NPHS2) is a protein which has a role in the regulation of glomerular permeability, serving as a linker between the plasma membrane and the cytoskeleton. NPHS2 gene mutations cause steroid-resistant nephrotic syndrome.
<b>Form</b>	NPHS2 was filtered (0.4µm) and lyophilized in 30mM acetate buffer and 1mM dithiothreitol, pH 4.
<b>Molecular Mass</b>	30.2kDa
<b>AA Sequence</b>	MKHHHHHHASVKVVQEYERV IIFRLGHLLP GRAKGPGLFF FLPCLDITYHK VDLRLQTLEI PFHEIVTKDM FIMEIDAICY YRMENASLLL SSLAHVSKAV QFLVQTTMKR LLAHRSLTEI LLERKSIAQD AKVALDSVTC IWGIKVERIE IKDVRLPAGL QHSLAVEAEA QRQAKVRMIA AEA EKAASES LRMAAEILSG TPAAVQLRYL HTLQSLSTEK PSTVVLPLPF DLLNCLSSPS NRTQGSLPFP SPSKPVEPLN PKKKDSPML.

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<b>Purity</b>	Purity as determined by densitometric image analysis is greater than 95%.
<b>Storage</b>	Store lyophilized protein at -20 centigrade. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4 centigrade for a limited period of time; it does not show any change after two weeks at 4 centigrade.
<b>Reconstitution</b>	It is recommended to add 0.1M acetate buffer pH 4.0 to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10g/ml. In higher concentrations the solubility of this antigen is limited. NPHS2 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

## GENE INFORMATION

<b>Gene Name</b>	NPHS2 NPHS2, podocin [ Homo sapiens ]
<b>Official Symbol</b>	NPHS2
<b>Synonyms</b>	PDCN; SRN1; nephrosis 2, idiopathic, steroid-resistant (podocin)
<b>Gene ID</b>	7827
<b>mRNA Refseq</b>	NM_014625
<b>Protein Refseq</b>	NP_055440
<b>MIM</b>	604766
<b>UniProt ID</b>	Q9NP85

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<b>Chromosome Location</b>	1q25.2
<b>Pathway</b>	Nephrin/Neph1 signaling in the kidney podocyte, organism-specific biosystem
<b>Function</b>	protein binding

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