



## Rabbit Anti-NPHS2/Podocin antibody

SL6597R

<b>Product Name:</b>	NPHS2/Podocin
<b>Chinese Name:</b>	肾小球裂孔膜蛋白PDCN抗体
<b>Alias:</b>	nephrosis 2, idiopathic, steroid resistant; NPHS2 gene; PDCN; Podocin; SRN1; PODO_HUMAN.
<b>文献引用</b> PubMed :	<p><b>Specific References(2)</b> SL6597R has been referenced in 2 publications.</p> <p><b>[IF=4.72]</b>Zhang, Xiao-Liang, et al. "Vitamin D Prevents Podocyte Injury Via Regulation Of Macrophage M1/M2 Phenotype In Diabetic Nephropathy Rats." Endocrinology (2014). <b>WB;Rat.</b>  <a href="#">PubMed:25188527</a></p> <p><b>[IF=0.00]</b>Garovic, Vesna D., and Muthuvel Jayachandran. "DETECTING PODOCYTE INJURY IN DIABETIC NEPHROPATHY AND GLOMERULONEPHRITIS." U.S. Patent No. 20,170,003,299. 5 Jan. 2017.<b>Human.</b>  <a href="#">PubMed:0</a></p>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	42kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human NPHS2/Podocin:231-

	330/383<Extracellular>
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>Podocin is an important member of a group of proteins shown to be associated with the slit diaphragm. Podocin belongs to the band 7 stomatin family of lipid raft-associated proteins. It is a hairpin like integral membrane protein with intracellular N and C termini. Podocin is located at the insertion site of the slit membrane, and is thought to act as a scaffold protein required to maintain or regulate the structural integrity of the slit diaphragm. It plays a role in the regulation of glomerular permeability, acting probably as a linker between the plasma membrane and the cytoskeleton.</p> <p><b>Subunit:</b> Interacts with nephrin/NPHS1 and KIRREL. Interacts directly with CD2AP. Interacts with DDN (By similarity).</p> <p><b>Subcellular Location:</b> Cell membrane; Peripheral membrane protein.</p> <p><b>Tissue Specificity:</b> Almost exclusively expressed in the podocytes of fetal and mature kidney glomeruli.</p> <p><b>DISEASE:</b> Defects in NPHS2 are the cause of nephrotic syndrome type 2 (NPHS2) [MIM:600995]. It is a renal disorder characterized clinically by childhood onset of proteinuria, hypoalbuminemia, hyperlipidemia, and edema. Kidney biopsies show non-specific histologic changes such as focal segmental glomerulosclerosis and diffuse mesangial proliferation. The disorder is resistant to steroid treatment and progresses to end-stage renal failure in the first or second decades. Some patients show later onset of the disorder.</p> <p><b>Similarity:</b> Belongs to the band 7/mec-2 family.</p> <p><b>SWISS:</b> Q9NP85</p> <p><b>Gene ID:</b> 7827</p> <p><b>Database links:</b></p>

[Entrez Gene: 7827](#)Human

[Entrez Gene: 170484](#)Mouse

[Entrez Gene: 170672](#)Rat

[Omim: 604766](#)Human

[SwissProt: Q9NP85](#)Human

[SwissProt: Q91X05](#)Mouse

[SwissProt: Q8K4G9](#)Rat

[Unigene: 412710](#)Human

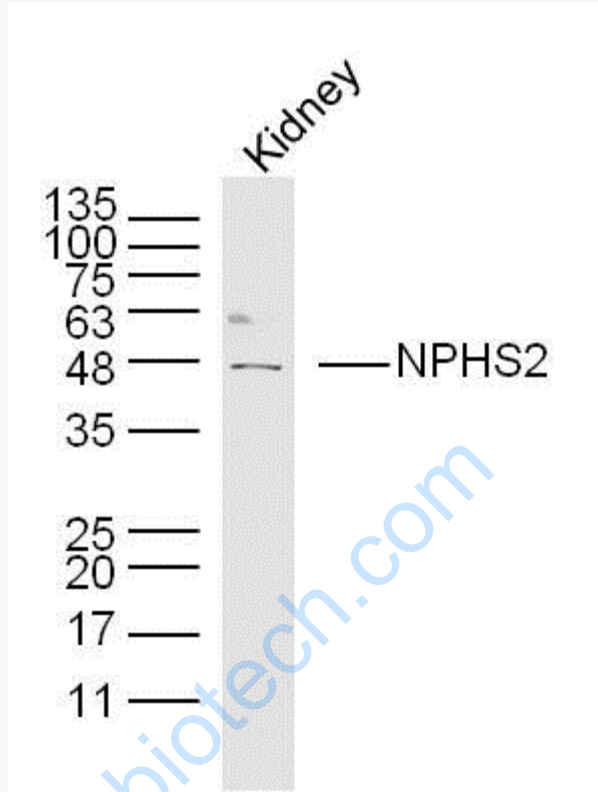
[Unigene: 289099](#)Mouse

[Unigene: 86433](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



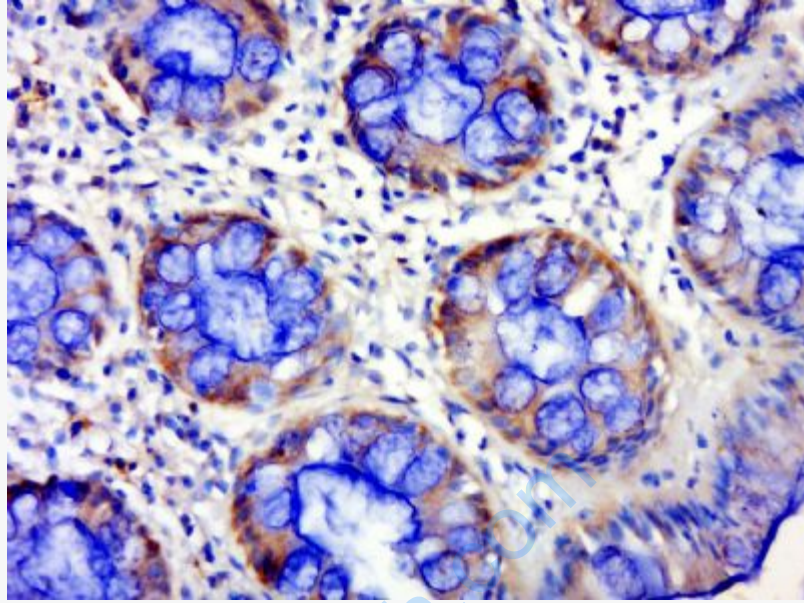
Sample: Kidney (Mouse) Lysate at 40 ug

Primary: Anti-NPHS2 (SL6597R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 42 kD

Observed band size: 47 kD



Paraformaldehyde-fixed, paraffin embedded (human colon cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NPHS2) Polyclonal Antibody, Unconjugated (SL6597R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.