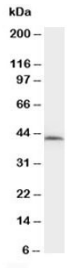
NPHS2 Antibody (Podocin) (R30382)

Catalog No.	Formulation	Size
R30382	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q9NP85
Applications	Western Blot : 0.5-1ug/ml
Limitations	This NPHS2 antibody is available for research use only.



Western blot testing of NPHS2 antibody and rat kidney tissue lysate. Predicted molecular weight ~42kDa.

Description

NPHS2, also called Podocin (PDCN), is a protein which lines the podocytes and assists in maintaining the barrier at the glomerular basement membrane. NPHS2 is a causative gene for Familial idiopathic nephrotic syndromes, which represents a heterogeneous group of kidney disorders, and include autosomal recessive steroid-resistant nephrotic syndrome, which is characterized by early childhood onset of proteinuria, rapid progression to end-stage renal disease and focal segmental glomerulosclerosis. By positional cloning, it was mapped to 1q25-31. It is almost exclusively expressed in the podocytes of fetal and mature kidney glomeruli, and encodes a new integral membrane protein, podocin, belonging to the stomatin protein family. Boute et al.(2000) found ten different NPHS2 mutations, comprising nonsense, frameshift and missense mutations, to segregate with the disease, demonstrating a crucial role for podocin in the function

of the glomerular filtration barrier.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the NPHS2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the middle region of human NPHS2 (CVKVVQEYERVIIFRLGH) was used as the immunogen for this NPHS2 antibody.

Storage

After reconstitution, the NPHS2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.