

## Anti-Podocin NPHS2 Antibody Picoband®

Catalog Number: PA1322

### About NPHS2

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, NPHS2 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.

### Overview

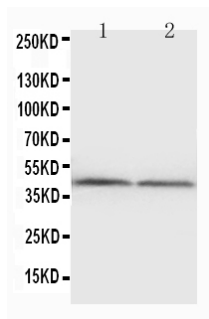
Product Name	Anti-Podocin NPHS2 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Podocin NPHS2 Antibody catalog # PA1322. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9NP85

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human NPHS2, different from the mouse sequence by one amino acid.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

	blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Rat, Human, Mouse

## Anti-Podocin NPHS2 Antibody Picoband® (PA1322) Images



Anti-NPHS2 antibody, PA1322, Western blottingWB: Rat  
Kidney Tissue Lysate

## 7 Publications Citing This Product

1. PubMed ID: 31301369, Qiu Y,Zhou J,Zhang H,Zhou H,Tang H,Lei C,Ye C,You C,Chen Y,Wang Y,Xiong J,Su H,Yao G,Zhang C.Rhodojaponin II attenuates kidney injury by regulating TGF-beta1/Smad pathway in mice with adriamycin nephropathy.J Ethnopharmacol.2019 Oct 28;243:112078.doi:10.1016/j.jep.2019.112078.Epub 2019 Jul 10.PMID: 31301369.
2. PubMed ID: 33537831, Zhang X,Zhang L,Chen Z,Li S,Che B, Wang N,Chen J,Xu C,Wei C.Exogenous spermine attenuates diabetic kidney injury in rats by inhibiting AMPK/mTOR signaling pathway.Int J Mol Med.2021 Mar;47(3):27.doi:10.3892/ijmm.2021.4860.Epub 2021 Feb 4.PMID:33537831.
3. PubMed ID: 32307498, Qi MY,Wang XT,Xu HL,Yang ZL,Cheng Y,Zhou B.Protective effect of ferulic acid on STZ-induced diabetic nephropathy in rats.Food Funct.2020 Apr 1;11(4):3706-3718.doi:10.1039/c9fo02398d.Epub 2020 Apr 20. PMID:32307498.

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