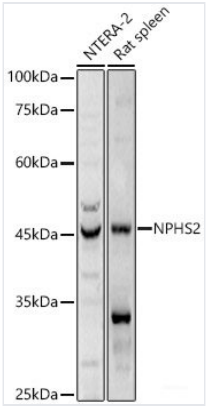
NPHS2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NPHS2, Polyclonal Antibody
Full Product Name	NPHS2 Polyclonal Antibody
Product Gene Name	anti-NPHS2 antibody
Product Synonym Names	NPHS2; PDCN; SRN1; podocin
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.01% thiomersal,50% glycerol,pH7.3.
Purity/Purification	Affinity purification
Concentration	1mg/mL (lot specific)
Preparation and Storage	Storage: -20 degree C/One year. Avoid freeze/thaw cycles.
Molecular Weight	42,201 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (179519674..179545084, complement). Location: 1q25.2
OMIM	600995
3D Structure	ModBase 3D Structure for Q9NP85
Immunogen	A synthetic peptide of human NPHS2
Research Area	Cancer, Cell Biology, Signal Transduction, Tags and Cell Markers
Product Categories/Family for anti-NPHS2 antibody	Antibodies; Primary Antibodies; Polyclonal Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NPHS2 antibody	Western Blot (WB)
Application Notes for anti-NPHS2 antibody	WB: 1:500-1:2000
Related Product Information for anti-NPHS2 antibody	This gene encodes a protein that plays a role in the regulation of glomerular permeability. Mutations in this gene cause steroid-resistant nephrotic syndrome. Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of anti-NPHS2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NPHS2 purchase	MBS2574460 is an antibody targeting NPHS2. Also known as NPHS2 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-NPHS2 antibody
Western blot analysis of various lysates using NPHS2 Polyclonal Antibody at 1:1000 dilution.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NPHS2. It may not necessarily be applicable to this product.

NCBI GI #	7657615
NCBI GeneID	7827
NCBI Accession #	NP_055440.1
UniProt Primary Accession #	Q9NP85
UniProt Secondary Accession #	Q8N6Q5; B1AM32; B1AM33
UniProt Related Accession #	Q9NP85
GenBank Nucleotide #	NM_014625.2
NCBI Official Full Name	podocin
NCBI Official Synonym Full Names	nephrosis 2, idiopathic, steroid-resistant (podocin)
NCBI Official Symbol	NPHS2
NCBI Official Synonym Symbols	PDCN; SRN1
UniProt Protein Name	Podocin
Protein Family	Podocin
UniProt Gene Name	NPHS2
UniProt Entry Name	PODO_HUMAN
NCBI Protein Information	podocin
NCBI Summary for NPHS2	This gene encodes the glomerular protein podocin which plays a role in the regulation of glomerular permeability, and acts as a linker between the plasma membrane and the cytoskeleton. Defects in this gene are the cause of autosomal recessive steroid-resistant nephrotic syndrome (SRN). SRN is characterized by onset between three months and five years, resistance to steroid therapy and rapid progression to end-stage renal disease. An alternative splice variant has been described but its full length sequence has not been determined. [provided by RefSeq, Jul 2008]

UniProt Comments for NPHS2	NPHS2: Plays a role in the regulation of glomerular permeability, acting probably as a linker between the plasma membrane and the cytoskeleton. Defects in NPHS2 are the cause of nephrotic syndrome type 2 (NPHS2). 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. Belongs to the band 7/mec-2 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 1q25.2 Cellular Component: protein complex; endoplasmic reticulum; integral to plasma membrane; plasma membrane; intercellular junction; lipid raft Molecular Function: protein binding Biological Process: actin cytoskeleton reorganization; excretion Disease: Nephrotic Syndrome, Type 2
Research Articles on NPHS2	**1.** Active proteases in nephrotic plasma lead to a podocin-dependent phosphorylation of VASP in podocytes via protease activated receptor-1.
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