Podocin (PDCN) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Podocin (PDCN), Polyclonal Antibody
Full Product Name	Cy3-Linked Polyclonal Antibody to Podocin (PDCN)
Product Gene Name	anti-PDCN antibody
Product Synonym Names	NPHS2; NPHS-2; Nephrosis 2; Idiopathic Steroid-Resistant
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse, Rat
Concentration	>=100ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: PDCN (MBS2002471) Cy3 Conjugated Antibody: PDCN (MBS2049737)
Matching Pairs	Cy3 Conjugated Antibody: PDCN (MBS2049737) Immunogen: PDCN (MBS2011495)
Molecular Weight	34,421 Da
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	PDCN (Arg4~Ala100)
Conjugation	Cy3
Cross Reactivity	Rat
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2002471
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-PDCN antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-PDCN antibody	MBS2049737 is an antibody targeting PDCN. Also known as Cy3-Linked Polyclonal Antibody to Podocin (PDCN). Reactive in Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-PDCN 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.

ADDITIONAL DETAILS

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

NCBI GI #	7363002
NCBI GeneID	7827
NCBI Accession #	CAB83216.1
UniProt Secondary Accession #	Q8N6Q5; B1AM32; B1AM33
UniProt Related Accession #	Q9NP85

NCBI Official Full Name	podocin
NCBI Official Synonym Full Names	NPHS2, podocin
NCBI Official Symbol	NPHS2
NCBI Official Synonym Symbols	PDCN; SRN1
UniProt Protein Name	Podocin
UniProt Gene Name	NPHS2
NCBI Protein Information	podocin
NCBI Summary for PDCN	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. [provided by RefSeq, Jul 2014]
UniProt Comments for PDCN	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: intercellular junction; lipid raft; plasma membrane; protein complex Molecular Function: protein binding Biological Process: actin cytoskeleton reorganization Disease: Nephrotic Syndrome, Type 2
Research Articles on PDCN	**1.** This study shows that p.R229Q and p.A284V are the most frequent variants in Chilean children with steroid resistant nephrotic syndrome; it is the first time that this relationship has been reported in Chilean children
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