



Anti-NPHS1 (aa 1243-1256) polyclonal antibody (DPAB2366GH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Nephrin
Antigen Description	This gene encodes a member of the immunoglobulin family of cell adhesion molecules that functions in the glomerular filtration barrier in the kidney. The gene is primarily expressed in renal tissues, and the protein is a type-1 transmembrane protein found at the slit diaphragm of glomerular podocytes. The slit diaphragm is thought to function as an ultrafilter to exclude albumin and other plasma macromolecules in the formation of urine. Mutations in this gene result in Finnish-type congenital nephrosis 1, characterized by severe proteinuria and loss of the slit diaphragm and foot processes.
Specificity	The antibody reacts specifically with nephrin, first described as a kidney podocyte marker protein (MW 135,000 calculated from aa sequence data; apparent Mr 185,000 after SDS-PAGE). Nephrin is a transmembrane cell adhesion molecule located at the slit dia
Immunogen	Synthetic peptide (intracellular domain, aa1243-1256)
Source/Host	Guinea pig
Species Reactivity	Human
Conjugate	Unconjugated
Applications	IB, IF, IHC (PFA fIXed)
Positive Control	The antibody stains positively podocytes of the kidney, radial glial cells of the brain, Sertoli cells of testis, and beta islet cells of the pancreas.
Format	Whole antiserum
Size	100 µl

Buffer	0.09% sodium azide
Preservative	None
Storage	At 2°C-8°C

GENE INFORMATION

Gene Name	NPHS1 nephrosis 1, congenital, Finnish type (nephrin) [Homo sapiens]
Official Symbol	NPHS1
Synonyms	Nephrin; NPHS1; nephrosis 1, congenital, Finnish type (nephrin); CNF; NPHN; nephrin; renal glomerulus-specific cell adhesion receptor
Entrez Gene ID	4868
Protein Refseq	NP_004637
UniProt ID	O60500
Chromosome Location	19q13.1
Pathway	Cell-Cell communication; Nephrin interactions; Nephrin/Neph1 signaling in the kidney podocyte
Function	alpha-actinin binding; protein binding; protein domain specific binding; spectrin binding