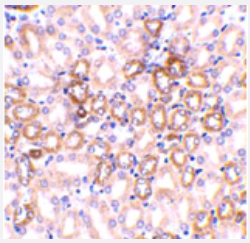
NPHS1 polyclonal antibody

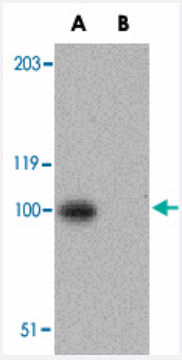
Catalog # PAB12848 Size 100 ug

Applications



Immunohistochemistry

Immunohistochemical staining of mouse kidney tissue with 1 ug/mL NPHS1 polyclonal antibody (Cat # PAB12848).



Western Blot (Tissue lysate)

Western blot analysis of NPHS1 in mouse kidney tissue lysate with NPHS1 polyclonal antibody (Cat # PAB12848) at 1 ug/mL in the (A) absence and (B) presence of blocking peptide.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of NPHS1.
Immunogen	A synthetic peptide corresponding to C-terminus 14 amino acids of human NPHS1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Recommend Usage	Western Blot (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.

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Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry

  Immunohistochemical staining of mouse kidney tissue with 1 ug/mL NPHS1 polyclonal antibody (Cat # PAB12848).

- Western Blot (Tissue lysate)

  Western blot analysis of NPHS1 in mouse kidney tissue lysate with NPHS1 polyclonal antibody (Cat # PAB12848) at 1 ug/mL in the (A) absence and (B) presence of blocking peptide.

Gene Info — NPHS1

Entrez GeneID	4868
Protein Accession#	NP_004637
Gene Name	NPHS1
Gene Alias	CNF, NPHN
Gene Description	nephrosis 1, congenital, Finnish type (nephrin)
Omim ID	256300 602716
Gene Ontology	Hyperlink
Gene Summary	Nephrin is a kidney glomerular filtration barrier protein that is an essential component of the interp odocyte-spanning slit diaphragm. Mutations in the nephrin gene are associated with congenital ne phrotic syndrome (NPHS1; MIM 256300).[supplied by OMIM
Other Designations	nephrin|renal glomerulus-specific cell adhesion receptor

Publication Reference

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- Molecular basis of glomerular permselectivity.

  Tryggvason K, Wartiovaara J.

  Current Opinion in Nephrology and Hypertension 2001 Jul; 10(4):543.

- Unraveling the mechanisms of glomerular ultrafiltration: nephrin, a key component of the slit diaphragm.

  Tryggvason K.

  Journal of the American Society of Nephrology 1999 Nov; 10(11):2440.

  Application: IEM, IF, Human, Human kidney

- Positionally cloned gene for a novel glomerular protein--nephrin--is mutated in congenital nephrotic syndrome.

  Kestila M, Lenkkeri U, Mannikko M, Lamerdin J, McCready P, Putaala H, Ruotsalainen V, Morita T, Nissinen M, Herva R, Kashtan CE, Peltonen L, Holmberg C, Olsen A, Tryggvason K.

  Molecular Cell 1998 Mar; 1(4):575.

Disease

- Cardiovascular Diseases
- Chronic Disease
- Diabetes
- Diabetes Mellitus
- Diabetic Nephropathies
- Disease Progression
- Edema
- Genetic Predisposition to Disease
- Glomerulonephritis
- Hematuria
- Hyperparathyroidism
- Hypertension
- Kidney Diseases
- Kidney Failure

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- Nephrosis
- Nephrotic Syndrome
- Proteinuria

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