

Rabbit anti-Human Nephrin Polyclonal Antibody | anti-NPHS1 antibody

Nephrin Antibody

CATALOG # AAA40716	HOST Rabbit	REACTIVITY Human	APPLICATIONS Western Blot, ELISA
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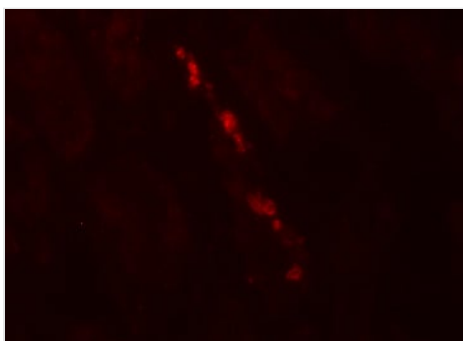
PRODUCT SYNONYMS

Nephrin; Polyclonal Antibody; Nephrin Antibody; NPHN; NPHS1; Renal glomerulus-specific cell adhesion receptor3; nephrosis 1; congenital; Finnish type (nephrin); anti-NPHS1 antibody

PRODUCT SPECIFICATIONS

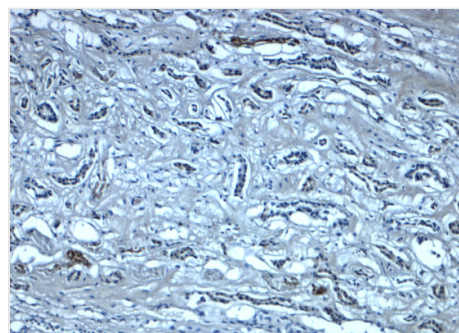
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	Nephrin antibody is human specific.
Purity/Purification	Nephrin antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	1241
Applicable Applications for anti-NPHS1 antibody	WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	Nephrin antibody was raised against a 15 amino acid peptide near the carboxy terminus of human Nephrin.
Buffer	Nephrin antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	Nephrin antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year.

IMAGES



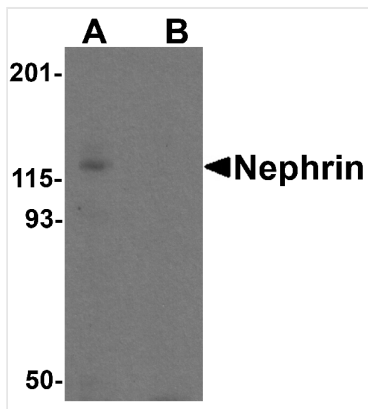
IF (Immunofluorescence)

Immunofluorescence of Nephrin in human kidney tissue with Nephrin antibody at 20 µg/ml.



IHC (Immunohistochemistry)

Immunohistochemistry of Nephrin in human kidney tissue with Nephrin antibody at 5 µg/ml.



WB (Western Blot)

Western blot analysis of Nephtrin in human kidney tissue lysate with Nephtrin antibody at 1 μg/ml in (A) the absence and (B) the presence of blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-NPHS1 antibody

Nephtrin is strongly expressed in renal glomeruli and is a member of the immunoglobulin family of cell adhesion molecules. Mutations in the Nephtrin gene result in congenital nephrotic syndrome, an autosomal-recessive disorder characterized by massive proteinuria in utero and nephrosis at birth (1). Renal glomeruli allow normal kidneys to filter plasma so that it is very pure. Nephtrin is expressed in the podocyte slit-diaphragm of the renal glomeruli in a manner that suggests that Nephtrin molecules homodimerize in an anti-parallel fashion similar to cadherin interactions in adherens junctions. Thus, Nephtrin may constitute the entire extracellular structure of the slit-diaphragm (2,3).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758822
NCBI GeneID	4868
NCBI Accession #	NP_004637
NCBI GenBank Nucleotide #	NM_004646.3
UniProt Accession #	O60500; A6NDH2; C3RX61
Molecular Weight	Predicted: 125; 137 kDa Observed: 125 kDa
NCBI Official Full Name	nephtrin
NCBI Official Synonym Full Names	nephrosis 1, congenital, Finnish type (nephtrin)
NCBI Official Symbol	NPHS1
NCBI Official Synonym Symbols	CNF; NPHN; nephtrin
NCBI Protein Information	nephtrin; renal glomerulus-specific cell adhesion receptor
UniProt Protein Name	Nephtrin
UniProt Gene Name	NPHS1
UniProt Synonym Gene Names	NPHN
UniProt Entry Name	NPHN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

