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Datasheet for 600-401-H04

Nephrin Antibody

Overview

Description:	Anti-Nephrin (RABBIT) Antibody - 600-401-H04
Item No.:	600-401-H04
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Nephrin antibody detects human Nephrin. Nephrin is strongly expressed in renal glomeruli and is a member of the immunoglobulin family of cell adhesion molecules. Mutations in the Nephrin gene result in congenital nephrotic syndrome, an autosomal-recessive disorder characterized by massive proteinuria in utero and nephrosis at birth. Renal glomeruli allow normal kidneys to filter plasma so that it is very pure. Nephrin is expressed in the podocyte slit-diaphragm of the renal glomeruli in a manner that suggests that Nephrin molecules homodimerize in an anti-parallel fashion similar to cadherin interactions in adherens junctions. Thus, Nephrin may constitute the entire extracellular structure of the slit-diaphragm. Anti-nephrin antibodies are ideal for investigators involved in cell cycle proteins.
Synonyms:	Nephrin, NPHN, NPHS1, Renal glomerulus-specific cell adhesion receptor
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	NPHS1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Nephrin Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide near the c-terminus of human Nephrin.

Purity/Specificity:	Anti-Nephrin Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with Nephrin with Human, Rat and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with Nephrin from other sources has not been determined.
Relevant Links:	• NCBI - NP_004737 • UniProtKB - O60500 • GeneID - 4868

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Nephrin Antibody is tested for use in WB and IHC. Expect a band approximately ~134.7 kDa on specific lysates. Western Blot tested in human, mouse and rat samples; Immunohistochemistry in mouse and rat samples; Immunofluorescence in human, mouse and rat samples. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	User Optimized
IHC:	1-2 µg/mL
WB:	1-4µg/mL

Formulation

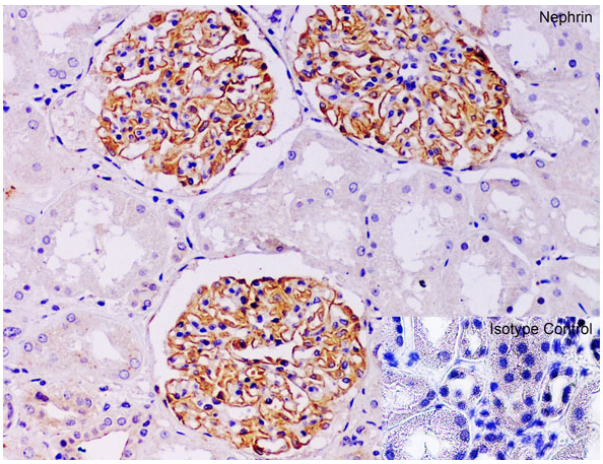
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

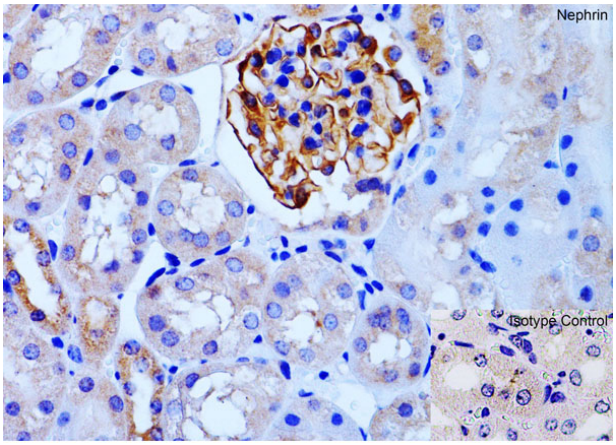
Expiration: Expiration date is one (1) year from date of receipt.

Images



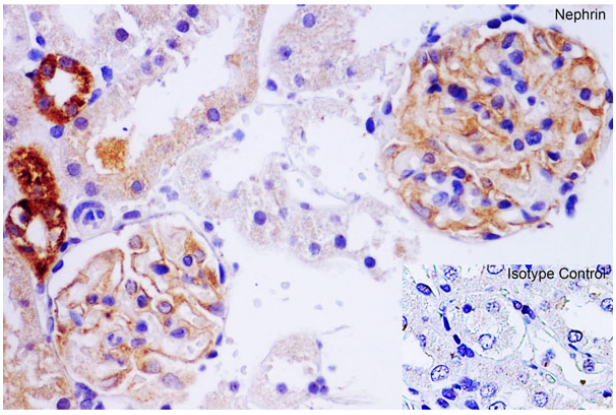
Immunohistochemistry
Immunohistochemistry of Nephrin.
Tissue: Human Kidney.
Fixation: paraffin-embedded, fixed with formaldehyde and blocked with 10% serum for 1 h at RT.
Antigen retrieval: heat mediation with a citrate buffer (pH6).

Primary Antibody: anti-Nephrin antibody at 1 µg/ml overnight at 4°C.
Secondary: goat anti-rabbit IgG H&L (HRP) at 1:250 was used as secondary. Counter stained with Hematoxylin.



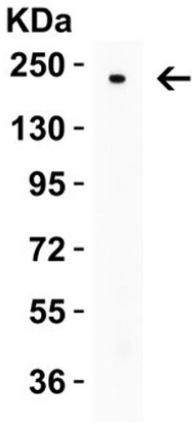
Immunohistochemistry
Immunohistochemistry of Nephrin.
Tissue: Mouse Kidney.
Fixation: paraffin-embedded, fixed with formaldehyde and blocked with 10% serum for 1 h at RT.
Antigen retrieval: heat mediation with a citrate buffer (pH6).

Primary Antibody: anti-Nephrin antibody at 1 µg/ml overnight at 4°C.
Secondary: goat anti-rabbit IgG H&L (HRP) at 1:250 was used as secondary. Counter stained with Hematoxylin.

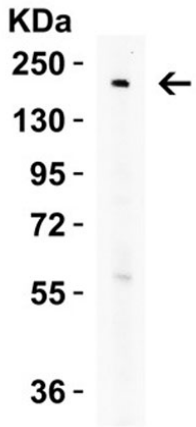


Immunohistochemistry
Immunohistochemistry of Nephrin.
Tissue: Rat Kidney.
Fixation: paraffin-embedded, fixed with formaldehyde and blocked with 10% serum for 1 h at RT.
Antigen retrieval: heat mediation with a citrate buffer (pH6).

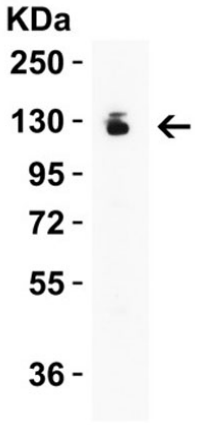
Primary Antibody: anti-Nephrin antibody at 1 µg/ml overnight at 4°C.
Secondary: goat anti-rabbit IgG H&L (HRP) at 1:250 was used as secondary. Counter stained with Hematoxylin.



Western Blot
Western Blot of Nephrin.
Load: 15 µg of human kidney lysate.
Primary Antibody: Nephrin at 2 µg/mL for 1h incubation at RT in 5% NFDM/TBST.
Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot
Western Blot of Nephrin.
Load: 15 µg of mouse kidney lysate.
Primary Antibody: Nephrin at 2µg/mL for 1h incubation at RT in 5% NFDM/TBST.
Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot
Western Blot of Nephrin.
Load: 15 µg of rat brain lysate.
Primary Antibody: Nephrin at 2µg/mL for 1h incubation at RT in 5% NFDM/TBST.
Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.

Disclaimer

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