

For Research Use Only

# NPHS2 Polyclonal antibody

Catalog Number: 20384-1-AP

54 Publications



## Basic Information

Catalog Number:

20384-1-AP

Concentration:

600 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG14213

GenBank Accession Number:

BC029141

GeneID (NCBI):

7827

UNIPROT ID:

Q9NP85

Full Name:

nephrosis 2, idiopathic, steroid-resistant (podocin)

Calculated MW:

383 aa, 42 kDa

Observed MW:

42 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:200-1:800

IF-P 1:300-1:1200

IF-Fro 1:50-1:500

## Applications

Tested Applications:

WB, IHC, IF-P, IF-Fro, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

mouse, rat

Cited Species:

human, mouse, rat, zebrafish

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB: rat kidney tissue,

IHC: rat kidney tissue,

IF-P: mouse kidney tissue, zebrafish embryos

IF-Fro: mouse kidney tissue,

## Background Information

NPHS2 (also known as Podocin) is a membrane protein located on the podocyte foot process and is the critical component of the glomerular filtration barrier. Mutations of NPHS2 cause recessive steroid-resistant nephrotic syndrome. Two isoforms of NPHS2 exist with molecular weights of 42 kDa and 35 kDa, respectively. (PMID: 21499232)

## Notable Publications

Author	Pubmed ID	Journal	Application
Siqi Ma	36341814	J Ethnopharmacol	WB
Kerrin Ursula Ingeborg Hansen	33070374	FASEB J	IF
Fanfan Gao	35547920	RSC Adv	WB, IHC

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

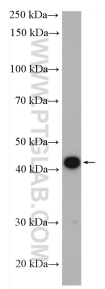
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

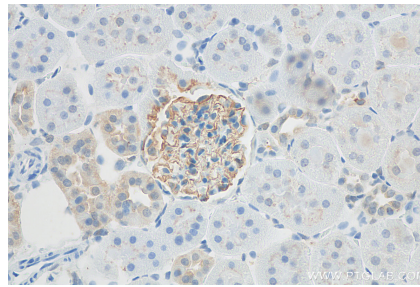
W: [ptgcn.com](http://ptgcn.com)

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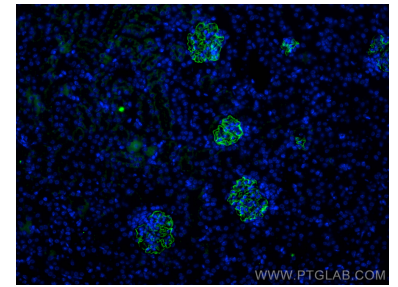
## Selected Validation Data



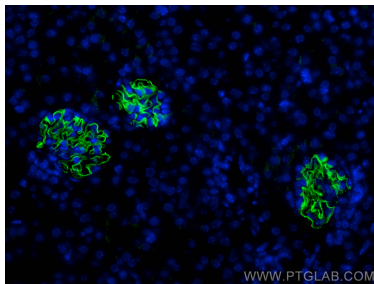
rat kidney tissue were subjected to SDS PAGE followed by western blot with 20384-1-AP (NPHS2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



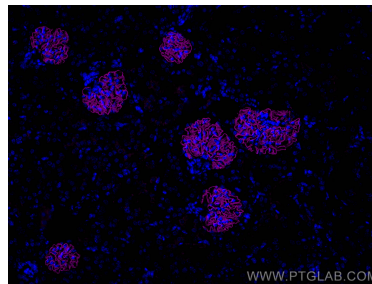
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 20384-1-AP (NPHS2 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



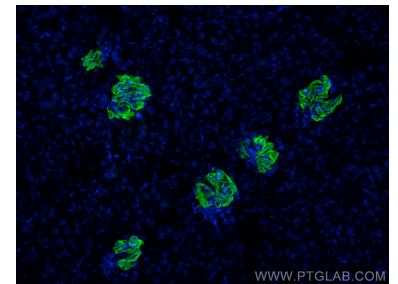
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using NPHS2 antibody (20384-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



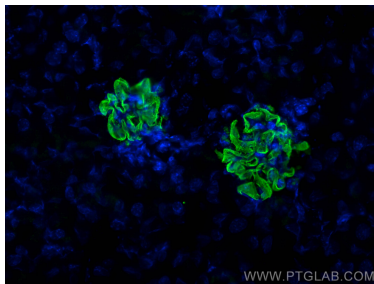
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using NPHS2 antibody (20384-1-AP) at dilution of 1:600 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



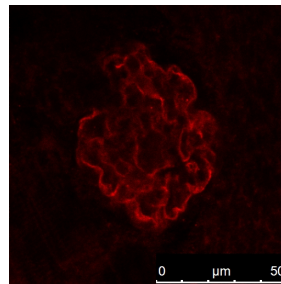
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using NPHS2 antibody (20384-1-AP) at dilution of 1:600 and CoraLite®647-Conjugated Goat Anti-Mouse IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse kidney tissue using NPHS2 antibody (20384-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse kidney tissue using NPHS2 antibody (20384-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



The podocin antibody 20384-1-AP recognized the zebrafish pronephric glomeruli in zebrafish embryos (72 hour-old fish). IF result from Dr. Weibin Zhou.