

For Research Use Only

# NPHS2 Polyclonal antibody

Catalog Number: 20384-1-AP **54 Publications**



## Basic Information

<b>Catalog Number:</b> 20384-1-AP	<b>GenBank Accession Number:</b> BC029141	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7827	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:200-1:800 IF-P 1:300-1:1200 IF-Fro 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9NP85	
<b>Isotype:</b> IgG	<b>Full Name:</b> nephrosis 2, idiopathic, steroid-resistant (podocin)	
<b>Immunogen Catalog Number:</b> AG14213	<b>Calculated MW:</b> 383 aa, 42 kDa	
	<b>Observed MW:</b> 42 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF-P, IF-Fro, ELISA	<b>Positive Controls:</b> WB : rat kidney tissue, IHC : rat kidney tissue, IF-P : mouse kidney tissue, zebrafish embryos IF-Fro : mouse kidney tissue,
<b>Cited Applications:</b> WB, IHC, IF	
<b>Species Specificity:</b> mouse, rat	
<b>Cited Species:</b> 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**

## 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

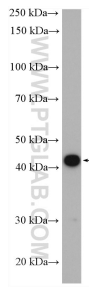
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

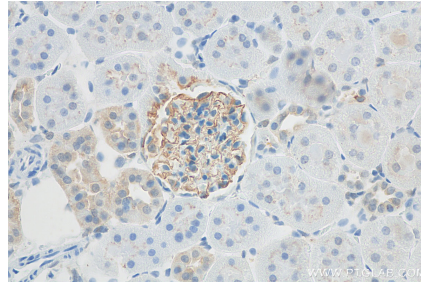
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

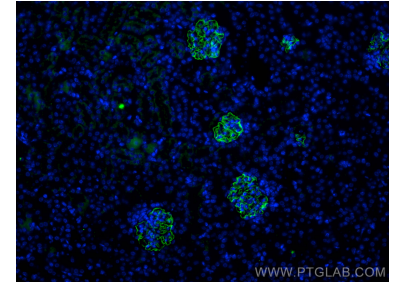
## Selected Validation Data



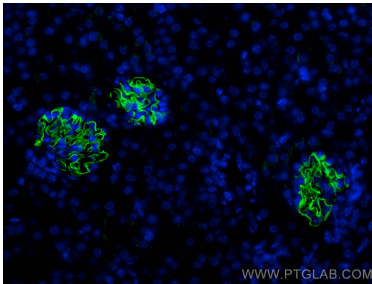
rat kidney tissue were subjected to SDS PAGE followed by western blot with 20384-1-AP (NPHS2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



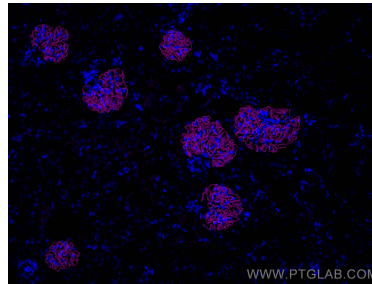
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 20384-1-AP (NPHS2 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



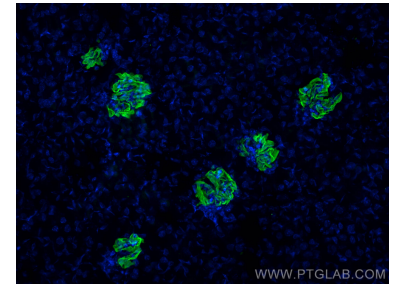
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using NPHS2 antibody (20384-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



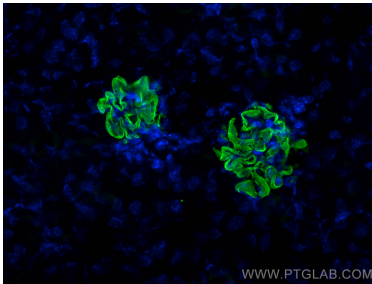
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using NPHS2 antibody (20384-1-AP) at dilution of 1:600 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



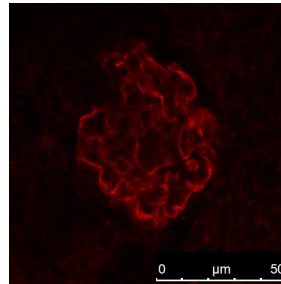
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using NPHS2 antibody (20384-1-AP) at dilution of 1:600 and CoraLite®647-Conjugated Goat Anti-Mouse IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.