

Product Datasheet

Podocin/NPHS2 Antibody (JB51-33) NBP2-75624

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-75624

Podocin/NPHS2 Antibody (JB51-33)

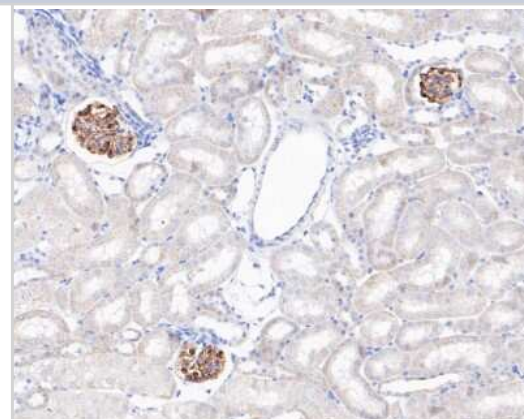
Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	JB51-33
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	TBS (pH7.4), 0.05% BSA, 40% Glycerol
Target Molecular Weight	42 kDa

Product Description	
Host	Rabbit
Gene ID	7827
Gene Symbol	NPHS2
Species	Human, Mouse, Rat
Immunogen	Synthetic peptide within Human Podocin/NPHS2 aa 334-383 / 383. (SwissProt: Q9NP85 Human; SwissProt: Q91X05 Mouse; SwissProt: Q8K4G9 Rat)

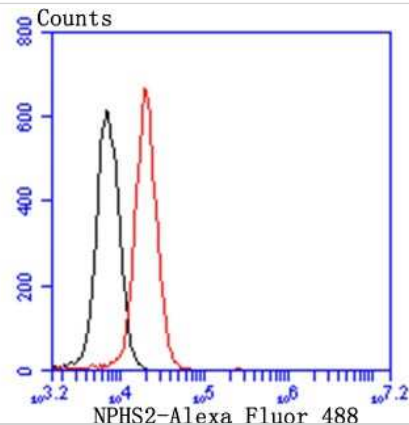
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Multiplex Immunoassay
Recommended Dilutions	Western Blot 1:500-1:1000, Flow Cytometry 1:50-1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:50-1:200, Multiplex Immunoassay Multiplex IHC: 1:1000

Images

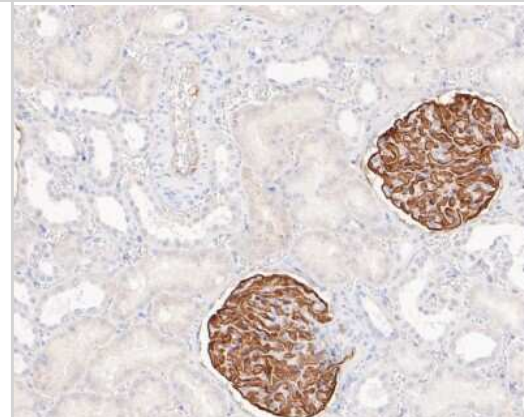
Immunohistochemistry-Paraffin: Podocin/NPHS2 Antibody (JB51-33) [NBP2-75624] - Analysis of paraffin-embedded mouse kidney tissue using anti-Podocin/NPHS2 antibody. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (1/200) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



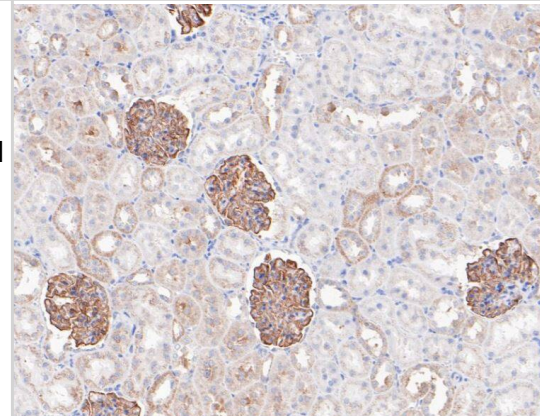
Flow Cytometry: Podocin/NPHS2 Antibody (JB51-33) [NBP2-75624] - Analysis of 293T cells with NPHS2 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.



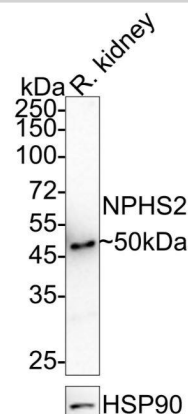
Immunohistochemistry-Paraffin: Podocin/NPHS2 Antibody (JB51-33) [NBP2-75624] - Analysis of paraffin-embedded human kidney tissue using anti-Podocin/NPHS2 antibody. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (1/200) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



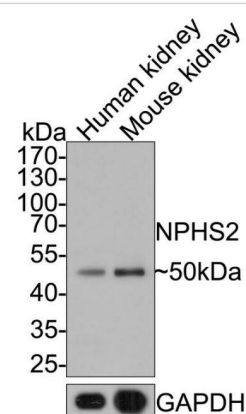
Immunohistochemistry-Paraffin: Podocin/NPHS2 Antibody (JB51-33) [NBP2-75624] - Rat kidney tissue using anti-NPHS2 antibody. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (1/200) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



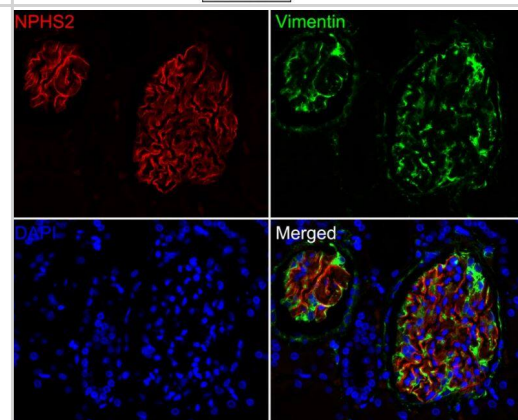
Western Blot: Podocin/NPHS2 Antibody (JB51-33) [NBP2-75624] - Analysis of NPHS2 on rat kidney tissue lysates with Rabbit anti-NPHS2 antibody at 1/1,000 dilution. Lysates/proteins at 20 ug/Lane. Predicted band size: 42 kDa Observed band size: 50 kDa Exposure time: 2 minutes; ECL: K1801; 4-20% SDS-PAGE gel. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1/50,000 dilution was used for 1 hour at room temperature.



Western Blot: Podocin/NPHS2 Antibody (JB51-33) [NBP2-75624] - Analysis of NPHS2 on different lysates with Rabbit anti-NPHS2 antibody at 1/500 dilution. Lane 1: Human kidney tissue lysate Lane 2: Mouse kidney tissue lysate Lysates/proteins at 20 ug/Lane. Predicted band size: 42 kDa Observed band size: 50 kDa Exposure time: 4 minutes; 10% SDS-PAGE gel. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody at 1/500 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:200,000 dilution was used for 1 hour at room temperature.



Immunohistochemistry-Paraffin: Podocin/NPHS2 Antibody (JB51-33) [NBP2-75624] -Immunofluorescence analysis of paraffin-embedded human kidney tissue labeling NPHS2 and Vimentin (EM0401). The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS. And then probed with the primary antibodies NPHS2 (red) at 1/100 dilution and Vimentin (green) at 1/400 dilution overnight at 4 °C, washed with PBS. iFluor™ 594 conjugate-Goat anti-Rabbit IgG and iFluor™ 488 conjugate-Goat anti-Mouse IgG (HA1125) were used as the secondary antibodies at 1/1,000 dilution. DAPI was used as nuclear counterstain



Publications

Zhang Y, Yao H, Li C et al. Gandi Capsule Improved Podocyte Lipid Metabolism of Diabetic Nephropathy Mice through SIRT1/AMPK/HNF4A Pathway Oxidative medicine and cellular longevity 2022-04-18 [PMID: 35480869] (IHC-P, WB, Mouse)

Radtke AJ, Chu CJ, Yaniv Z Et al. IBEX: an iterative immunolabeling and chemical bleaching method for high-content imaging of diverse tissues Nat Protoc 2022-01-13 [PMID: 35022622] (Hydrolysis Assay, Human)

Details:

Citation using the Alexa Fluor 532 version of this antibody.

Ajay AK, Zhao L, Vig S et al. Deletion of STAT3 from Foxd1 cell population protects mice from kidney fibrosis by inhibiting pericytes trans-differentiation and migration Cell reports 2022-03-08 [PMID: 35263586] (IHC-P, Mouse)

Pasupulati A, Nishad R, Mukhi D et al. Growth hormone induces TNF-alpha in podocytes and contributes to monocyte-to-macrophage differentiation: Implications in Diabetic kidney disease Research Square 2022-02-02 (WB, Human)

Tomita N, Hotta y, Naiki-Ito A et al. Protective effects of tadalafil on damaged podocytes in an adriamycin-induced nephrotic syndrome model Journal of Pharmacological Sciences 2022-03-01 [PMID: 35512855] (IHC-P, Rat)

Radtke Aj, Chu Cj, Yaniv Z Et Al. IBEX: An open and extensible method for high content multiplex imaging of diverse tissues arXiv preprint 2021-01-01



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Products Related to NBP2-75624

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-33570PEP	Podocin/NPHS2 Recombinant Protein Antigen

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