

Anti-NPHS2 Antibody [JB51-33] - BSA and Azide free

HA750460



Product Type: Recombinant Rabbit monoclonal IgG, primary antibodies

Species reactivity: Human, Mouse, Rat

Applications: WB, IHC-P, FC, IF-Tissue

Molecular Wt: Predicted band size: 42 kDa

Clone number: JB51-33

Description: Plays a role in the regulation of glomerular permeability, acting probably as a linker between the plasma membrane and the cytoskeleton. Almost exclusively expressed in the podocytes of fetal and mature kidney glomeruli.

Immunogen: Synthetic peptide within Human NPHS2 aa 334-383 / 383.

Positive control: Rat kidney tissue lysates, human kidney tissue lysate, mouse kidney tissue lysate, human kidney tissue, mouse kidney tissue, rat kidney tissue, 293T.

Subcellular location: Cell membrane. Endoplasmic reticulum.

Database links: SwissProt: Q9NP85 Human | Q91X05 Mouse | Q8K4G9 Rat

Recommended Dilutions:

WB 1:500-1:1,000

IHC-P 1:50-1:200

FC 1:50-1:100

IF-Tissue 1:100

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co.,Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

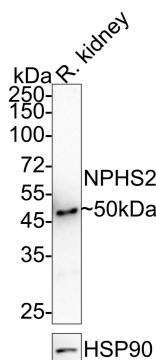
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Images

Fig1: Western blot analysis of NPHS2 on rat kidney tissue lysates with Rabbit anti-NPHS2 antibody (HA750460) at 1/1,000 dilution.

Lysates/proteins at 20 µg/Lane.



Predicted band size: 42 kDa

Observed band size: 50 kDa

Exposure time: 2 minutes; ECL: K1801;

4-20% SDS-PAGE gel.

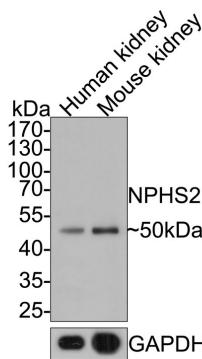
Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750460) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of NPHS2 on different lysates with Rabbit anti-NPHS2 antibody (HA750460) at 1/500 dilution.

Lane 1: Human kidney tissue lysate

Lane 2: Mouse kidney tissue lysate

Lysates/proteins at 20 µg/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 (HA750460) at 1/500 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:200,000 dilution was used for 1 hour at room temperature.

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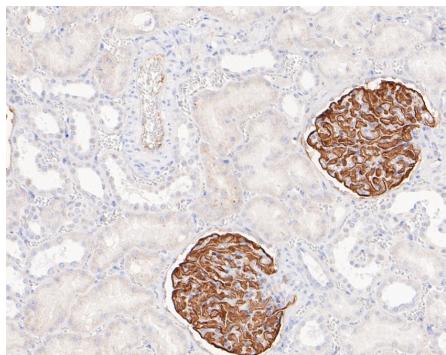


Fig3: Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-NPHS2 antibody. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA750460, 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.

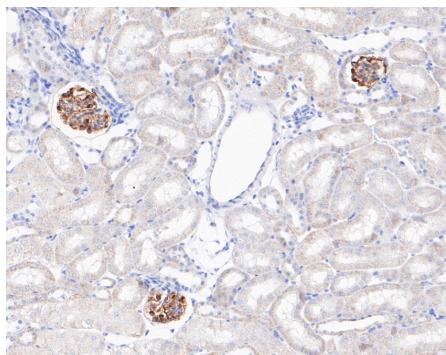


Fig4: Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-NPHS2 antibody. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA750460, 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.

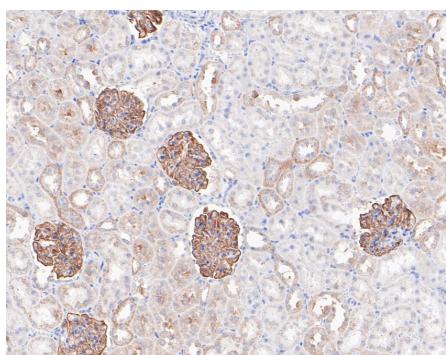


Fig5: Immunohistochemical analysis of paraffin-embedded rat kidney tissue using anti-NPHS2 antibody. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA750460, 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.

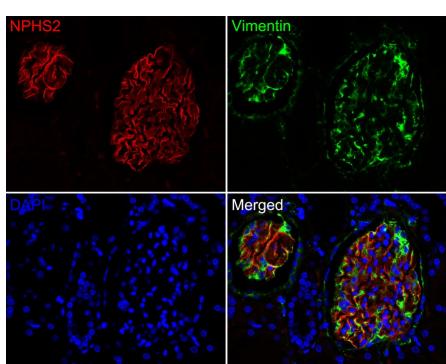


Fig6: Immunofluorescence analysis of paraffin-embedded human kidney tissue labeling NPHS2 (HA750460) and Vimentin (EM0401).

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 (HA750460, red) at 1/100 dilution and Vimentin (EM0401, green) at 1/400 dilution overnight at 4 °C, washed with PBS.

iFluor™ 594 conjugate-Goat anti-Rabbit IgG (HA1122) 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.

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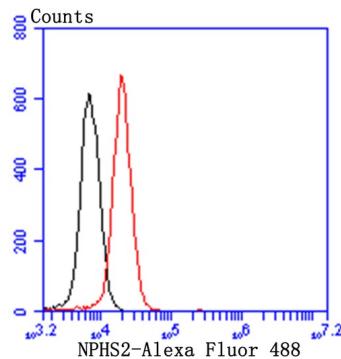


Fig7: Flow cytometric analysis of NPHS2 was done on 293T cells. The cells were fixed, permeabilized and stained with the primary antibody (HA750460, 1/50) (red). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor 488-conjugated Goat anti-Rabbit IgG Secondary antibody at 1/1,000 dilution for 30 minutes. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Volker L A et al. Characterization of a short isoform of the kidney protein podocin in human kidney. *BMC Nephrol* 14:102-102 (2013).
2. Boute N et al. NPHS2, encoding the glomerular protein podocin, is mutated in autosomal recessive steroid-resistant nephrotic syndrome. *Nat Genet* 24:349-354 (2000).

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