Product datasheet

Anti-NPHS2 antibody ab50339

Overview

Product name: Anti-NPHS2 antibody
Description: Rabbit polyclonal to NPHS2
Host species: Rabbit

Tested applications: Suitable for: WB, IHC-Fr, IHC-P, ICC/IF

Species reactivity: Reacts with: Mouse, Rat, Human

Immunogen: Synthetic peptide corresponding to Human NPHS2 aa 367-383 conjugated to keyhole limpet haemocyanin (Cysteine residue). Synthetic peptide conjugated to KLH by an N-terminal Cysteine residue linker.
Sequence: SKPVEPLNPKKDSPML

Positive control: Whole extract of rat glomeruli and human or rat kidney frozen sections.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Storage buffer: pH: 7.40
Preservative: 0.097% Sodium azide
Constituent: 0.0268% PBS

Purity: Immunogen affinity purified

Purification notes: ab50339 is affinity-purified using the immunizing peptide immobilized on agarose.

Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab50339 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
**Function**
Plays a role in the regulation of glomerular permeability, acting probably as a linker between the plasma membrane and the cytoskeleton.

**Tissue specificity**
Almost exclusively expressed in the podocytes of fetal and mature kidney glomeruli.

**Involvement in disease**
Defects in NPHS2 are the cause of nephrotic syndrome type 2 (NPHS2) [MIM:600995]. It is a renal disorder characterized clinically by childhood onset of proteinuria, hypoalbuminemia, hyperlipidemia, and edema. Kidney biopsies show non-specific histologic changes such as focal segmental glomerulosclerosis and diffuse mesangial proliferation. The disorder is resistant to steroid treatment and progresses to end-stage renal failure in the first or second decades. Some patients show later onset of the disorder.

**Sequence similarities**
Belongs to the band 7/mec-2 family.

**Cellular localization**
Cell membrane.

**Immunohistochemical analysis of paraffin-embedded mouse kidney tissue labeling NPHS2 with ab50339 at 0.2 µg/ml.**

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 0.5 - 1 µg/ml. Predicted molecular weight: 42 kDa. Additional weak bands may be detected when immunoblotting various extract preparations. Detection of podocin (doublet) by immunoblotting is specifically inhibited with the immunizing peptide. The upper band may represent a post-translational modified variant.</td>
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<tr>
<td>IHC-Fr</td>
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<td>Use a concentration of 10 - 20 µg/ml.</td>
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<tr>
<td>IHC-P</td>
<td>★★★★★</td>
<td>Use a concentration of 0.2 µg/ml.</td>
</tr>
<tr>
<td>ICC/IF</td>
<td>★★★★☆</td>
<td>Use a concentration of 1 µg/ml.</td>
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Immunohistochemical analysis of paraffin-embedded rat kidney tissue labeling NPHS2 with ab50339 at 0.2 µg/ml.

ICC/IF image of ab50339 stained Hek293 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1% BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab50339, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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