abcam

Product datasheet

Anti-NPHS2 antibody ab177242

2 Images

Overview

Product name	Anti-NPHS2 antibody
Description	Goat polyclonal to NPHS2
Host species	Goat
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse, Human, Pig **Predicted to work with:** Cow
Immunogen	Synthetic peptide corresponding to Human NPHS2 aa 365-377 (C terminal) (Cysteine residue). Sequence: SPSKPVEPLNPKK Database link: NP_055440.1 Run BLAST with Run BLAST with
Positive control	WB: Mouse, human and pig kidney lysates.

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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 99% Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Purification notes	ab177242 is purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab177242** in the following tested applications.

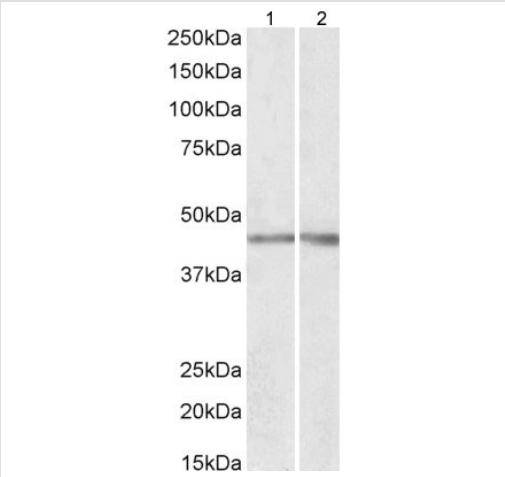
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.5 - 2 µg/ml. Detects a band of approximately 45 kDa (predicted molecular weight: 42 kDa).

Target

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.

Images



Western blot - Anti-NPHS2 antibody (ab177242)

All lanes : Anti-NPHS2 antibody (ab177242) at 0.3 µg/ml

Lane 1 : Human kidney lysate (in RIPA buffer)

Lane 2 : Mouse kidney lysate (in RIPA buffer)

Lysates/proteins at 35 µg per lane.

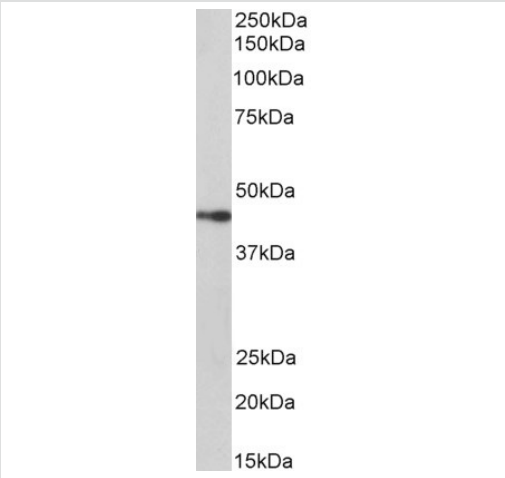
Developed using the ECL technique.

Predicted band size: 42 kDa

Observed band size: 45 kDa

why is the actual band size different from the predicted?

Primary incubation was 1 hour.



Western blot - Anti-NPHS2 antibody (ab177242)

Anti-NPHS2 antibody (ab177242) at 1 µg/ml + Pig kidney lysate (in RIPA buffer) at 35 µg

Developed using the ECL technique.

Predicted band size: 42 kDa
Observed band size: 45 kDa why is the actual band size different from the predicted?

Primary incubation was 1 hour.

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