abcam

Product datasheet

Anti-Nephrin antibody ab58968

2 Abreviews 67 References 4 Images

Overview

Product name	Anti-Nephrin antibody
Description	Rabbit polyclonal to Nephrin
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, WB
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	A 14 amino acid peptide from near the carboxy terminus of human Nephrin.
Positive control	WB: HEK293 and Mouse kidney lysate. IHC: Mouse kidney tissue.
General notes	Abcam is committed to meeting high standards of manufacturing and has decided to discontinue this product once the stock runs out as we are unable to secure its future high-quality supply. We suggest ab216341 as possible replacement. We are sorry for any inconvenience this may case. Although there are publications stating this antibody works with Rat species in WB (PMID 19052104). The antibody however fail to stain the Rat kidney sections hence we have removed the species(from customer feedback). Further feedback using this antibody with Rat tissues would be very welcome The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: PBS, 0.1% BSA
Purity	Immunogen affinity purified
Purification notes	ab58968 is purified.

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab58968 in the following tested applications.

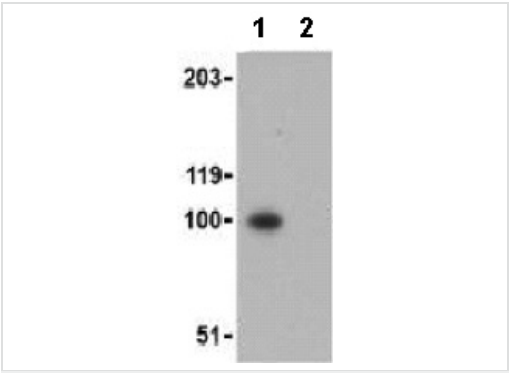
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 5 - 10 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB	★★★★★ (2)	Use a concentration of 0.5 - 1 µg/ml. Detects a band of approximately 85 kDa (predicted molecular weight: 138 kDa).

Target

Function	Seems to play a role in the development or function of the kidney glomerular filtration barrier. Regulates glomerular vascular permeability. May anchor the podocyte slit diaphragm to the actin cytoskeleton. Plays a role in skeletal muscle formation through regulation of myoblast fusion.
Tissue specificity	Specifically expressed in podocytes of kidney glomeruli.
Involvement in disease	Defects in NPHS1 are the cause of nephrotic syndrome type 1 (NPHS1) [MIM:256300]; also known as Finnish congenital nephrosis (CNF). A renal disease characterized clinically by proteinuria, hypoalbuminemia, hyperlipidemia, and edema. Kidney biopsies show non-specific histologic changes such as focal segmental glomerulosclerosis and diffuse mesangial proliferation. Some affected individuals have an inherited steroid-resistant form and progress to end-stage renal failure.
Sequence similarities	Belongs to the immunoglobulin superfamily. Contains 1 fibronectin type-III domain. Contains 8 Ig-like C2-type (immunoglobulin-like) domains.
Developmental stage	In 23-week-old embryo found in epithelial podocytes of the periphery of mature and developing glomeruli.
Post-translational modifications	Phosphorylated on tyrosine residues.
Cellular localization	Cell membrane. Predominantly located at podocyte slit diaphragm between podocyte foot processes. Also associated with podocyte apical plasma membrane.

Images



Western blot - Anti-Nephrin antibody (ab58968)

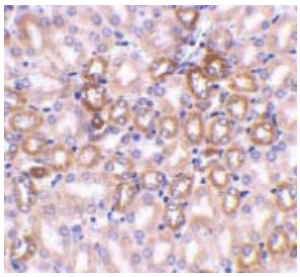
All lanes : Anti-Nephrin antibody (ab58968) at 1 µg/ml

Lane 1 : mouse kidney tissue lysate
Lane 2 : mouse kidney tissue lysate with blocking peptide

Lysates/proteins at 15 µg per lane.

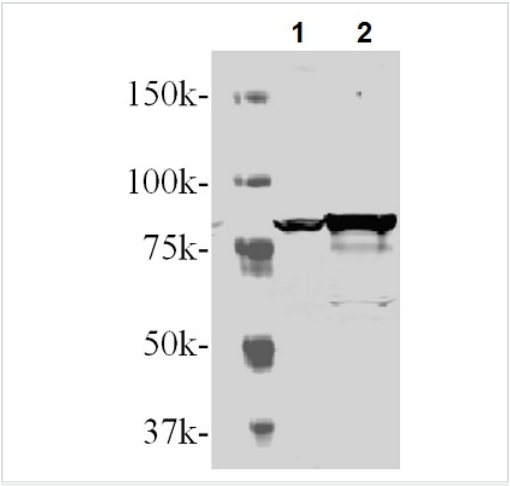
Predicted band size: 138 kDa
Observed band size: 100 kDa

The difference in MW size could be due to modification to the protein or just aberrant migration.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nephrin antibody (ab58968)

ab58968, at a concentration of 1 µg/ml, staining Nephrin in mouse kidney tissue by Immunohistochemistry.

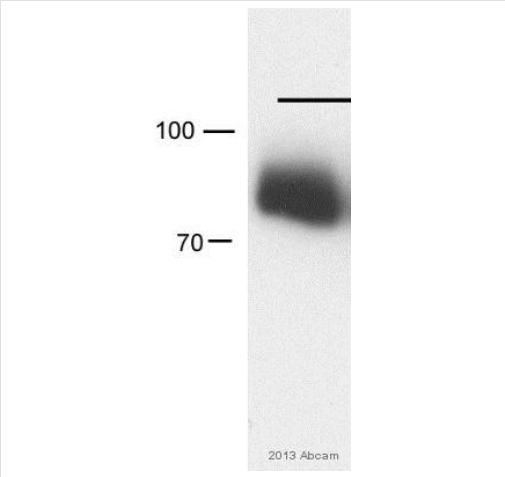


Western blot - Anti-Nephrin antibody (ab58968)

All lanes : Anti-Nephrin antibody (ab58968)

Lane 1 : HEK293 cell lysate
Lane 2 : Mouse kidney lysate

Predicted band size: 138 kDa



Western blot - Anti-Nephrin antibody (ab58968)

This image is courtesy of an anonymous Abreview

Anti-Nephrin antibody (ab58968) at 0.5 µg/ml + Mouse kidney tissue lysate at 56 µg with Milk at 5 %

Secondary

HRP conjugated Goat anti-rabbit IgG monoclonal at 1/1000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 138 kDa

Observed band size: 85 kDa

Exposure time: 30 seconds

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