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Nephrin Antibody (Ascites)

Mouse Monoclonal Antibody (Mab)
Catalog # AM1865a

Specification

Nephrin Antibody (Ascites) - Product Information

Application	**WB, IF,E**
Primary Accession	O60500
Other Accession	NP_004637.1
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgM,K**
Antigen Region	**1088-1117**

Nephrin Antibody (Ascites) - Additional Information

Gene ID 4868

Other Names
Nephrin, Renal glomerulus-specific cell adhesion receptor, NPHS1, NPHN

Target/Specificity
This Nephrin antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 1088-1117 amino acids from human Nephrin.

Dilution
WB~~1:500~1000
IF~~1:10~50
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Nephrin Antibody (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

Nephrin Antibody (Ascites) - Protein Information

Name NPHS1

Synonyms NPHN

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 (By similarity).

Cellular Location
Cell membrane; Single-pass type I membrane protein. Note=Predominantly located at podocyte slit diaphragm between podocyte foot processes. Also associated with podocyte apical plasma membrane.

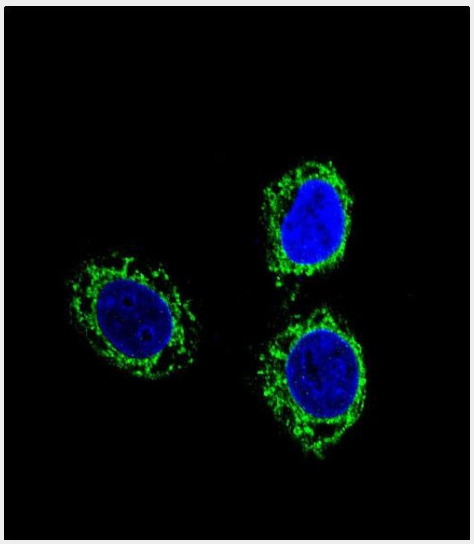
Tissue Location
Specifically expressed in podocytes of kidney glomeruli

Nephrin Antibody (Ascites) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Nephrin Antibody (Ascites) - Images



Confocal immunofluorescent analysis of Nephrin Antibody (C-term) (Cat#AM1865a) with Hela cell followed by Alexa Fluor® 488-conjugated goat anti-mouse IgG (green). DAPI was used to stain the cell nuclear (blue).

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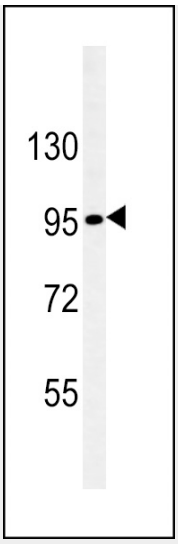

Nephrin Antibody (C-term) (Cat. #AM1865a) western blot analysis in SK-BR-3 cell line lysates (15µg/lane).This demonstrates the Nephrin antibody detected the Nephrin protein (arrow).(1:100)

Nephrin Antibody (Ascites) - Background

This gene encodes a member of the immunoglobulin family of cell adhesion molecules that functions in the glomerular filtration barrier in the kidney. The gene is primarily expressed in renal tissues, and the protein is a type-1 transmembrane protein found at the slit diaphragm of glomerular podocytes. The slit diaphragm is thought to function as an ultrafilter to exclude albumin and other plasma macromolecules in the formation of urine. Mutations in this gene result in Finnish-type congenital nephrosis 1, characterized by severe proteinuria and loss of the slit diaphragm and foot processes.

Nephrin Antibody (Ascites) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Wu, F., et al. J. Am. Soc. Nephrol. 21(9):1456-1467(2010) Tossidou, I., et al. J. Biol. Chem. 285(33):25285-25295(2010) Machuca, E., et al. J. Am. Soc. Nephrol. 21(7):1209-1217(2010) Aya, K., et al. Kidney Int. 57(2):401-404(2000)