Datasheet for ABIN5518783

anti-Nephrin antibody (AA 1084-1241)

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Overview

Quantity:	100 µg
Target:	Nephrin (NPHS1)
Binding Specificity:	AA 1084-1241
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Nephrin antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Nephrin(NPHS1) detection. Tested with WB in Human,Mouse,Rat.
Immunogen:	E.coli-derived human Nephrin recombinant protein (Position: V1084-V1241). Human Nephrin shares 79.9% and 75.3% amino acid (aa) sequence identity with mouse and rat Nephrin, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Nephrin(NPHS1) detection. Tested with WB in Human,Mouse,Rat. Gene Name: nephrosis 1, congenital, Finnish type (nephrin) Protein Name: Nephrin

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	Nephrin (NPHS1)
Alternative Name:	NPHS1 (NPHS1 Products)
Background:	NPHS1, also called Nephrin, is mapped to 19q13.12. This gene encodes a member of the immunoglobulin family of cell adhesion molecules that functions in the glomerular filtration barrier in the kidney. It 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. A defect in the gene for nephrin, NPHS1, is associated with congenital nephrotic syndrome of the Finnish type and causes massive amounts of protein to be leaked into the urine, orproteinuria. NPHS1 is also required for cardiovascular development. Synonyms: CNF | Nephrin | NPHN | NPHS 1 | NPHS1 | O60500
Gene ID:	4868
UniProt:	O60500
Pathways:	Regulation of Actin Filament Polymerization, Skeletal Muscle Fiber Development

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL

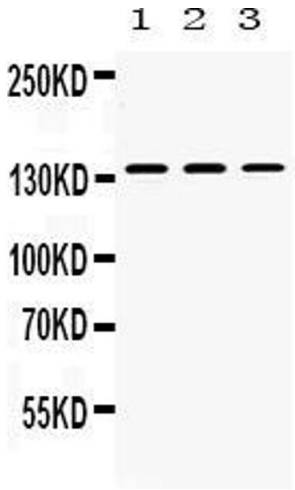
Handling

Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in:	Chen, Chen, Liu, Ma: "Effect of simvastatin on the expression of nephrin, podocin, and vascular endothelial growth factor (VEGF) in podocytes of diabetic rat." in: **International journal of clinical and experimental medicine**, Vol. 8, Issue 10, pp. 18225-34, (2016) (PubMed). Hao, Pan, Zheng, Wang: "Effect of Cordyceps sinensis and Tripterygium wilfordii polyglycosidium on podocytes in rats with diabetic nephropathy." in: **Experimental and therapeutic medicine**, Vol. 7, Issue 6, pp. 1465-1470, (2014) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of Nephrin expression in rat kidney extract (Lane 1), mouse kidney extract (Lane 2) and 293T whole cell lysates (Lane 3). Nephrin at 134KD was detected using rabbit anti- Nephrin Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).