产品名称：Nephrin Rabbit Polyclonal Antibody
产品货号：APRab14562

产品概述（Summary）

产品名称（Production Name）	Nephrin Rabbit Polyclonal Antibody
描述（Description）	Rabbit polyclonal Antibody
宿主（Host）	Rabbit
应用（Application）	WB,IHC,ICC/IF,ELISA
种属反应性（Reactivity）	Human,Mouse,Rat

产品性能（Performance）

偶联物（Conjugation）	Unconjugated
修饰（Modification）	Unmodified
同种型（Isotype）	IgG
克隆（Clonality）	Polyclonal
形式（Form）	Liquid
存放说明（Storage）	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液（Buffer）	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式（Purification）	Affinity purification

免疫原信息（Immunogen）

基因名（Gene Name）	NPHS1
别名（Alternative Names）	NPHS1; NPHN; Nephrin; Renal glomerulus-specific cell adhesion receptor
基因 ID（Gene ID）	4868.0
蛋白 ID（SwissProt ID）	O60500.The antiserum was produced against synthesized peptide derived from human Nephrin. AA range:843-892

产品应用（Application）

稀释比（Dilution Ratio）	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000
蛋白分子量（Molecular Weight）	

研究背景（Background）

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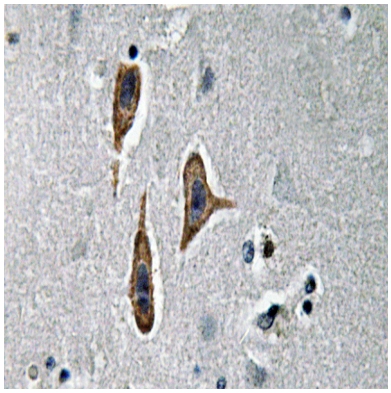
This gene encodes a member of the immunoglobulin family of cell adhesion molecules that functions in the glomerular filtration barrier in the kidney. The gene is primarily expressed in renal tissues, and the protein is a type-1 transmembrane protein found at the slit diaphragm of glomerular podocytes. 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.[provided by RefSeq, Oct 2009],developmental stage:In 23-week-old embryo found in epithelial podocytes of the periphery of mature and developing glomeruli.,disease:Defects in NPHS1 are the cause of congenital nephrotic syndrome of the Finnish type (NPHS1 or CNF) [MIM:256300]. CNF is an autosomal recessive disorder characterized by massive proteinuria in utero and nephrosis at birth.,function:Seems to play a role in the development or function of the kidney glomerular filtration barrier. May anchor the podocyte slit diaphragm to the actin cytoskeleton.,PTM:Phosphorylated on tyrosine residues.,similarity:Belongs to the immunoglobulin superfamily.,similarity:Contains 1 fibronectin type-III domain.,similarity:Contains 8 Ig-like C2-type (immunoglobulin-like) domains.,subcellular location:Predominantly located at podocyte slit diaphragm between podocyte foot processes. Also associated with podocyte apical plasma membrane.,subunit:Interacts with podocin/NPHS2 and KIRREL. Interacts with CD2AP C-terminal domain (By similarity). Interacts with MAGI1 PDZ 2 and 3 domains forming a tripartite complex with IGSF5/JAM4 (By similarity). Interacts with DDN; the interaction is direct.,tissue specificity:Specifically expressed in podocytes of kidney glomeruli.,

研究领域（Research Area）

Signal Transduction; Cytoskeleton / ECM; Cell Adhesion; Cell Adhesion Molecules; Endothelial

图片（Image Data）



Immunohistochemistry analysis of Nephrin antibody in paraffin-embedded human brain tissue.

注意事项（Note）

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