

Nephrin Rabbit pAb

CatalogNo: YT3036 Orthogonal Validated 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 135kD (Calculated)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

IHC 1:100-1:300

ELISA 1:40000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human Nephrin. AA range: 843-892

Specificity Nephrin Polyclonal Antibody detects endogenous levels of Nephrin protein.

Target Information

Gene name NPHS1

Protein Name Nephrin

Organism	Gene ID	UniProt ID
Human	4868 ;	O60500 ;
Mouse	54631 ;	Q9QZS7 ;
Rat	64563 ;	Q9R044 ;

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

Tissue specificity Specifically expressed in podocytes of kidney glomeruli.

Function 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.,

| Validation Data

| Contact information

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