

## Product datasheet for **TA322715**

### Nephrin (NPHS1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Mouse spleen and kidney tissue IHC: 25-100 Positive control: Human liver cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide peptide corresponding to a region derived from 1229-1241 amino acids of human nephrosis 1, congenital, Finnish type (nephrin)
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	135 kDa
Gene Name:	NPHS1 nephrin
Database Link:	<a href="#">NP_004637</a> <a href="#">Entrez Gene 54631 Mouse</a> <a href="#">Entrez Gene 64563 Rat</a> <a href="#">Entrez Gene 4868 Human</a> <a href="#">O60500</a>



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**Background:**

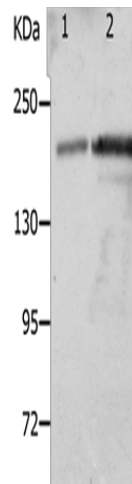
This gene encodes a member of the immunoglobulin family of cell adhesion molecules that functions in the glomerular filtration barrier in the kidney. The gene is primarily expressed in renal tissues; and the protein is a type-1 transmembrane protein found at the slit diaphragm of glomerular podocytes. 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. In Western blots; nephrin antibodies generated against the two terminal extracellular Ig domains of recombinant human nephrin recognized a 180-kDa protein in lysates of human glomeruli and a 150-kDa protein in transfected COS-7 cell lysates.

**Synonyms:**

CNF; nephrin; NPHN

**Protein Families:**

Druggable Genome, Transmembrane

**Product images:**

Gel: 8%SDS-PAGE

Lysate: 40 µg

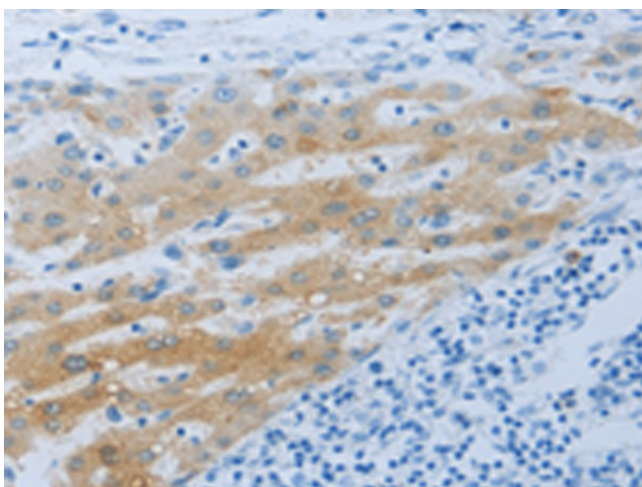
Lane 1-2: Mouse spleen tissue

Mouse kidney tissue

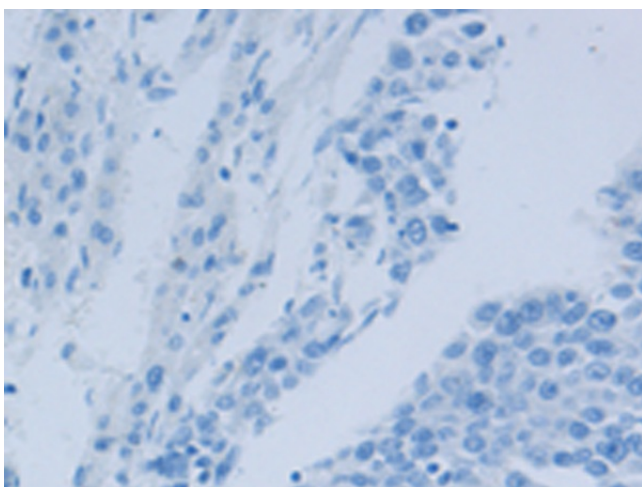
Primary antibody: TA322715 (NPHS1 Antibody) at dilution 1/800

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

Exposure time: 1 minute



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA322715 (NPHS1 Antibody) at dilution 1/50 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA322715 (NPHS1 Antibody) at dilution 1/50, treated with synthetic peptide. (Original magnification:  $\times 200$ )