

Rabbit Nephrin Polyclonal Antibody | anti-NPHS1 antibody

Nephrin Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327172	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

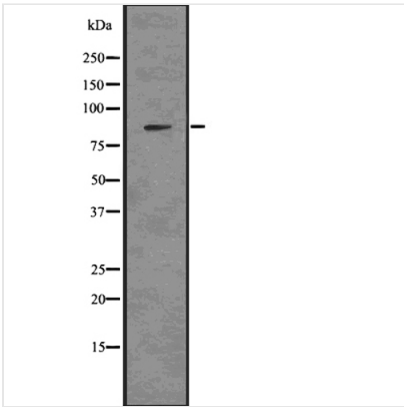
PRODUCT SYNONYMS

Nephrin; Polyclonal Antibody; Nephrin Antibody; CNF; Nephrosis 1 congenital Finnish type; Nephrosis 1; congenital; Finnish type (neph rin); NPHN; NPHN_HUMAN; NPHS 1; Nphs1; Renal glomerulus specific cell adhesion receptor; Renal glomerulus-specific cell adhesion receptor; anti-NPHS1 antibody

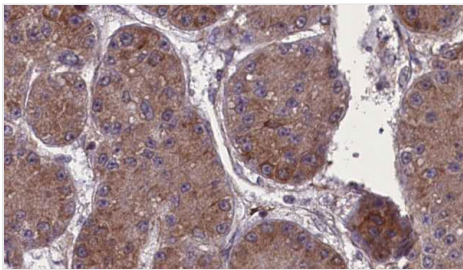
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Neph rin antibody detects endogenous levels of total Neph rin
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1241
Applicable Applications for anti-NPHS1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Neph rin
Subcellular Location	Cell Membrane. 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.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (90%), Zebrafish (100%), Bovine (80%), Horse (100%), Sheep (80%), Rabbit (80%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis Nephtrin using mouse kidney tissue lysates



IHC (Immunohistochemistry)
AAA327172 at 1/100 staining Human kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-NPHS1 antibody	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). Subunit Structure: Interacts with CD2AP (via C-terminal domain). Interacts with MAGI1 (via PDZ 2 and 3 domains) forming a tripartite complex with IGSF5/JAM4. Interacts with DDN; the interaction is direct. Self-associates (via the Ig-like domains). Also interacts (via the Ig-like domains) with KIRREL1/NEPH1 and KIRREL2; the interaction with KIRREL1 is dependent on KIRREL1 glycosylation. Interacts with KIRREL3. Forms a complex with ACTN4, CASK, IQGAP1, MAGI2, SPTAN1 and SPTBN1 (By similarity). Interacts with NPHS2 (PubMed:11562357). Post-translational Modifications: Phosphorylated at Tyr-1193 by FYN, leading to the recruitment and activation of phospholipase C-gamma-1/PLCG1. Similarity: Belongs to the immunoglobulin superfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4758822
NCBI GeneID	4868
NCBI Accession #	NP_004637.1
NCBI GenBank Nucleotide #	NM_004646.3
UniProt Accession #	O60500; A6NDH2; C3RX61
Molecular Weight	Observed: 85 kDa Predicted: 135 kDa
NCBI Official Full Name	nephrin
NCBI Official Synonym Full Names	NPHS1, nephrin
NCBI Official Symbol	NPHS1
NCBI Official Synonym Symbols	CNF; NPHN; nephrin
NCBI Protein Information	nephrin
UniProt Protein Name	Nephrin
UniProt Gene Name	NPHS1
UniProt Synonym Gene Names	NPHN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/nephrin-antibody-immunohistochemistry-western-blot-elisa/327172>