

Rabbit anti-Human, mouse Nephrin (Y1210) Polyclonal Antibody | anti-NPHS1 antibody

Nephrin (Y1210) antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287101	Rabbit	Human, mouse	Flow Cytometry, Functional Assay, ELISA, Western Blot

PRODUCT SYNONYMS

Nephrin (Y1210); Polyclonal Antibody; Nephrin (Y1210) antibody; Nephrin; Renal glomerulus-specific cell adhesion receptor; NPHS1; NPHN; anti-NPHS1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This Nephrin antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1191-1219 amino acids from human Nephrin.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	1191-1219
Applicable Applications for anti-NPHS1 antibody	FCM/FACS (Flow Cytometry), ELISA, WB (Western Blot)
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).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Note=Predominantly located at podocyte slit diaphragm between podocyte foot processes. Also associated with podocyte apical plasma membrane.
Tissue Location	Specifically expressed in podocytes of kidney glomeruli
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

Nephrin Antibody (Y1210) (Cat. #AAA287101) flow cytometric analysis of MDA-MB435 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

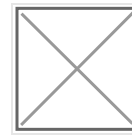


WB (Western Blot)

All lanes : Anti-Nephrin (Y1210) antibody at 1:2000 dilution
Lane 1: 293 whole cell lysate
Lane 2: A-498 whole cell lysate
Lane 3: Caki-1 whole cell lysate
Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 135 kDa
Blocking/Dilution buffer: 5% NFD/MTBST.

**WB (Western Blot)**

Nephrin (Y1210) antibody (Cat. #AAA287101) western blot analysis in mouse kidney tissue lysates (35ug/lane). This demonstrates the Nephrin antibody detected the Nephrin protein (arrow).

**WB (Western Blot)**

Nephrin (Y1210) antibody (Cat. #AAA287101) western blot analysis in MDA-MB435 cell line lysates (35ug/lane). This demonstrates the Nephrin antibody detected the Nephrin protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-NPHS1 antibody	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.
Product Categories/Family for anti-NPHS1 antibody	Signal Transduction
References	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Wu, F., et al. J. Am. Soc. Nephrol. 21(9):1456-1467(2010) Tossidou, I., et al. J. Biol. Chem. 285(33):25285-25295(2010) Machuca, E., et al. J. Am. Soc. Nephrol. 21(7):1209-1217(2010) Aya, K., et al. Kidney Int. 57(2):401-404(2000)

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
NCBI Official Full Name	nephrin
NCBI Official Synonym Full Names	nephrosis 1, congenital, Finnish type (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
UniProt Entry Name	NPHN_HUMAN

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-y1210-antibody-flow-cytometry-western-blot-elisa/287101>