

Rabbit anti-Human NPHP1 Polyclonal Antibody | anti-NPHP1 antibody

Anti-NPHP1 Antibody, Rabbit Polyclonal

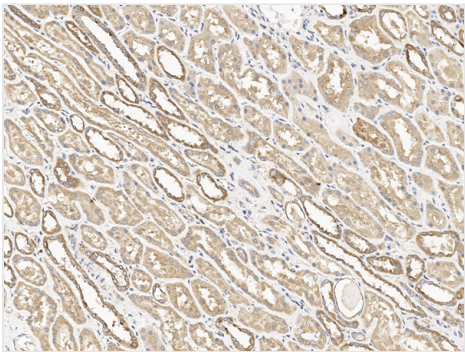
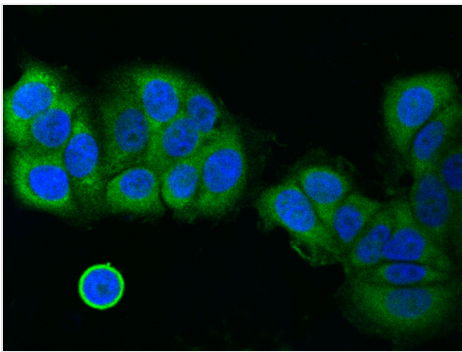
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA258541	Rabbit	Human	Immunofluorescence, Immunocytochemistry, Immunohistochemistry

PRODUCT SYNONYMS

NPHP1; Polyclonal Antibody; Anti-NPHP1 Antibody; Rabbit Polyclonal; NPHP1 Antibody; Rabbit PAb; Antigen Affinity Purified; Anti-JBTS4 Antibody; Anti-NPHP1 Antibody; Anti-SLSN1 Antibody; nephronophthisis 1 (juvenile); anti-NPHP1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human NPHP1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-NPHP1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)
Conjugation	Unconjugated
Immunogen	E Coli-derived Human NPHP1 fragment
Preparation	Produced in rabbits immunized with E Coli-derived Human NPHP1 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2 degree C-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

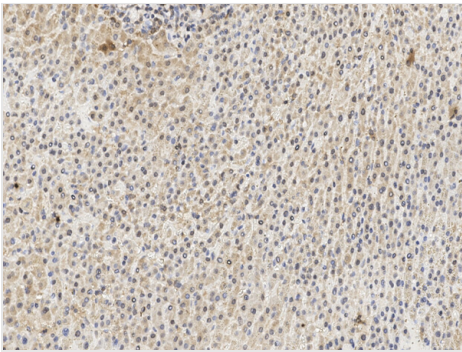


IF (Immunofluorescence)

Immunofluorescence staining of NPHP1 in MCF7 cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human NPHP1 polyclonal antibody (dilution ratio 1:100) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cytoplasm.

IHC (Immunohistochemistry)

Immunochemical staining of human NPHP1 in human kidney with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human NPHP1 in human liver with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-NPHP1 antibody	NPHP1, the gene that encodes the protein nephrocystin-1 has been identified to be mutated in Juvenile Nephronophthisis, an autosomal recessive cystic kidney disorder that is the most frequent genetic cause of the end-stage renal disease (ESRD) in children and young adults. NPHP1 is the major subtype leading to pediatric end-stage renal disease (ESRD). Reports of adult NPHP1 are rare. NPHP1 presents a modular structure well in keeping with its role as an adaptor protein: it harbors an SH3 domain flanked by two glutamic acid-rich regions and a conserved C-terminal nephrocystin homology domain (NHD). Similar to other NPHP protein family members, its N-terminus contains a putative coiled-coil domain (NPHP1CC) that is supposed to play an important role in NPHP1 self-association and/or protein-protein interactions.
References	Wang Y, et al. (2019) Two novel homozygous mutations in nphp1 lead to late onset end-stage renal disease: A case report of an adult nephronophthisis in a chinese intermarriage family. BMC Nephrol 20 (1): 173.Mannella V, et al. (2019) The n-terminal domain of nphp1 folds into a monomeric left-handed antiparallel three-stranded coiled coil with anti-apoptotic function. ACS Chem Biol 14 (8): 1845-1854.Devi AN, et al. (2015) Expression profiles of nphp1 in the germ cells in the semen of men with male factor infertility. Andrology 3 (4): 685-693.

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.