

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

Anti-NPHP1 Antibody, Rabbit Polyclonal

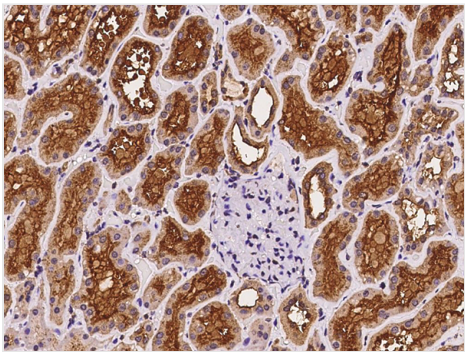
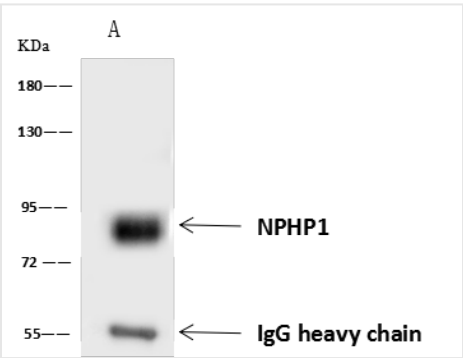
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA256528	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

NPHP1; Polyclonal Antibody; Anti-NPHP1 Antibody; Rabbit Polyclonal; NPHP1/Nephronophthisis1 Antibody; Rabbit PAb; Antigen Affinity Purified; nephronophthisis 1 (juvenile); Anti-JBTS4 Antibody; Anti-NPH1 Antibody; Anti-SLSN1 Antibody; anti-NPHP1 antibody

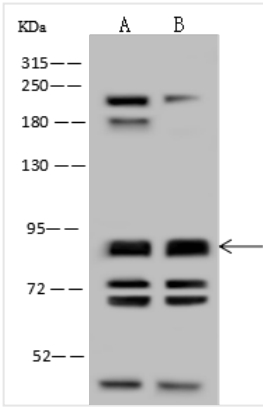
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human NPHP1/Nephronophthisis1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-NPHP1 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human NPHP1/Nephronophthisis1 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human NPHP1/Nephronophthisis1 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 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.



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

IP (Immunoprecipitation)
NPHP1 was immunoprecipitated using: Lane A: 0.5 mg Hela Whole Cell Lysate 4 uL anti-NPHP1 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-NPHP1 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 80 kDa. Observed band size: 80 kDa.



WB (Western Blot)
Anti-NPHP1 rabbit polyclonal antibody at 1:500 dilution. Lane A: Hela Whole Cell Lysate. Lane B: U-251 MG Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 80 kDa.

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.