



Recombinant Human Nephrocystin-1 (NPHP1)

Product Code	CSB-BP015985HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O15259
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MLARRQRDPL QALRRRNQEL KQQVDSLLSE SQLKEALEPN KRQHIYQRCI QLKQAIDENK NALQKLSKAD ESAPVANYNQ RKEEEHTLLD KLTQQQLQGLA VTISRENITE VGAPTEEEEE SESEDSGSG GEEEDAEEEE EEKEENESHK WSTGEEYIAV GDFTAQQVGD LTFKKGEILL VIEKKPDGWW IAKDAKGNEG LVPRTYLEPY SEEEEQESS EEGSEEDVEA VDETADGAEV KQRTDPHWSA VQKAISEAGI FCLVNHVSFC YLIVLMRNRN ETVEDTNGSE TGFRAWNVQS RGRIFLVSKP VLQINTVDVL TTMGAIPAGF RPSTLSQLE EGNQFRANYF LQPELMPSQL AFRDLMWDAT EGTIRSRPSR ISLILTLWSC KMIPLPGMSI QVLSRHVRLC LFDGNKVLSN IHTVRATWQP KKPKTWTFSP QVTRILPCLL DGDCFIRSNS ASPDLGILFE LGISYIRNST GERGELSCGW VFLKLFDASG VPIPAKTYEL FLNGGTPYEK GIEVDPSISR RAHGSVFYQI MTMRRQPQLL VKLRSLNRRS RNVLSLLPET LIGNMCSIHL LIFYRQILGD VLLKDRMSLQ STDLISHPML ATFPMLLEQP DVMDALRSSW AGKESTLKRS EKRDKEFLKS TFLLVYHDCV LPLLHSTRLP PFRWAEETE TARWKVITDF LKQNQENQGA LQALLSPDGV HEPFDLSEQT YDFLGEMRKN AV
Source	Baculovirus
Target Names	NPHP1
Protein Names	Recommended name: Nephrocystin-1 Alternative name(s): Juvenile nephronophthisis 1 protein
Expression Region	1-732
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	This gene encodes a protein with src homology domain 3 (SH3) patterns. This protein interacts with Crk-associated substrate, and it appears to function in the control of cell division, as well as in cell-cell and cell-matrix adhesion signaling, likely as part of a multifunctional complex localized in actin- and microtubule-based structures. Mutations in this gene cause familial juvenile nephronophthisis type 1, a kidney disorder involving both tubules and glomeruli. Defects in this gene are also associated with Senior-Loken syndrome type 1, also referred to as juvenile nephronophthisis with Leber amaurosis, which is characterized by kidney and eye disease, and with Joubert syndrome type 4, which is characterized by cerebellar ataxia, oculomotor apraxia, psychomotor delay and



neonatal breathing abnormalities, sometimes including retinal dystrophy and renal disease. Multiple transcript variants encoding different isoforms have been found for this gene.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.