



# Recombinant Mouse Nephrocystin-1 (Nphp1)

<b>Product Code</b>	CSB-EP882558MO
<b>Abbreviation</b>	Nphp1
<b>Storage</b>	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.
<b>Uniprot No.</b>	Q9QY53
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MLARRPRDPL QALRRRGQEL KLQVDSLVT E SQLTGALEPS KRREIYQRCI QLKQAVDENK NTLQKLNKAD EAAPVGNIEQ RKEEEHSLLE KLACQLQELA VSISRKDALK VEAHSDKEED DTTEDEDEET GEEEESEGD GEGKQEQASP KQAETETVTY IALGDFAAQQ TGDLTFFKKG D VLHIIKKPD GWWLAKDAEG VEGLIPRTYL EPYNKEDKLE SSEGSEEGGE EDGEEDVEVV DETADGAQVK QRTDSHWSAV RKAISEQINT VDVLATMGAI PAGFRPSTLS QLLDEAGNQF RASYFLQPEL TTSQLAFRDL TWDKAGTIM SRPSRVSLIL TLWCKMIPL PGTSIQVLSR HIRLCLFDGS KVLNSIHTVR AVWQPKPKT WTFSPQVTGI LPCLLDGDCF IRSNSSTPDL GILFELGISY IRNSTGERGE LSCGWVFLKL FDASGVPIPA KTYELFLNGG TPYEKGVEVD PSVSRRAQGS VFRQMISVRR QPQLLVKLRS LNRRSRAMLS LLPETLVGSM CSAHLLIFYR QILGDVLLRD RTNLQSADLI SHPVLATFPL LLEQPDVMDA LRSSWSEKES TLKRAEKRDK ELLKAEFLLV YHDCVLP LLH STLLPPFRWA EEETEAARWK AIADFLKQSR ENEGSLKALL SPDGVHKPFD LSEQTFDFLG EIRKNSG
<b>Source</b>	E.coli
<b>Target Names</b>	Nphp1
<b>Protein Names</b>	Recommended name: Nephrocystin-1
<b>Expression Region</b>	1-687
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	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.

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**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.

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**Shelf Life**

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