

Product datasheet for TP323635L

ATP7B (NM_000053) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ATPase, Cu ⁺⁺ transporting, beta polypeptide (ATP7B), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC223635 representing NM_000053 Red=Cloning site Green=Tags(s)

MPEQERQITAREGASRKILSKLSLPTRAWEPAMKKSFADFNVGYEGGLDGLGPSSQVATSTVRILGMTCCQ
SCVKSIEDRISNLKGIISMKVSLEQGSATVKYVPSVCLQVCHQIGDMGFEASIAEGKAASWPSRSLPA
QEAVVKL RVEGMTQCSCVSSIEGKVRKLQGVVRVKVLSLNQEAVITYQPYLIQPEDLRDHSVNDMGFEAAI
KSKVAPLSLGPIDIERLQSTNPKRPLSSANQNFNSETLGHQGSHVVTLLQLRIDGMHCKSCVNLNIEENIG
QLLGVQSIQVLENKTAQVKYDPSCTSPVALQRAIEALPPGNFKVSLPDGAEGSGTDHRSSSSHSPPGSP
RNQVQGTCTTLIAIAGMTCASCVHSIEGMISQLEGVQQISVSLAEGTATVLYNPAVISPEELRAAIEDM
GFEASVSESCSTNPLGNHSAGNSMVQTTDGTPTSLQEVAHPHTGRLPANHAPDILAKSPQSTRAVAPQKC
FLQIKGMTCASCVSNIERNLQKEAGVLSVLVALMAGKAEIKYDPEVIQPLEIAQFIQDLGFEAAVMEDIA
GSDGNIELTITGMTCASCVHNIESKLTRTNGITYASVALATSKALVKFDPEIIGPRDIIKIEEIGFHAS
LAQRNPNAHHLDHKMEIKQWKKSFLCSLVFGIPVMALMIYMLIPSNEPHQSMVLDHNIIPGLSILNLIFF
ILCTFVQLLGGWYFYVQAYKSLRHRSANMDVLIVLATSIAVYVSLVILVVAEKAERSPVTFDFTPPML
FVFIALGRWLEHLAKSKTSEALAKLSLQATEATVVTLLGEDNLIREEQVPMELVQRGDIVRVVPGGKFP
VDGKVLGNTMADESLITGEAMPVTKKPGSTVIAGSINAHGSLIKATHVGNDDTTLAQIVKLVEEAQMSK
APIQQLADRFSGYFVFPFIIMSTLTLVWVWVIGFIDFGVQKYFPNPNKHISQTEVIIRFAFQTSITVLC
IACPCSLGLATPTAVMVGTGVAQAQNGILKGGKPLEMAHKIKTVMFDKGTGITHGVPRVMRVLVLLGDVAT
LPLRKVLAVVGTAEASSEHPLGVAVTKYCKEELGTETLGYCTDFQAVPGCGIGCKVSNVEGILAHSERPL
SAPASHLNEAGSLPAEKDAAPQTFVSLIGNREWLRNGLTISSDVSDAMTDHEMKGQTAILVAIDGVLGC
MIAIADAVKQEAAALAVHTLQSMGVDVVLITGDNRKTARAIATQVGINKVFAEVLPSHKVAKVQELQNKKG
KVAMVGDGVNDSPALAQADMVGAIGTGDVAIEAADVVLIRNDLLDVVASIHLSKRTVRRIRINLVLALI
YNLVGPIAAGVFMPIGIVLQPWMGSAAMAASSVSVLSSLQLKCYKKPDLERYEAQAHGHMKPLTASQV
SVHIGMDDRWRDSPRATPWDQVSYVSVQVSSLTSDKPSRHSAAADDDGDKWSLLNINGRDEEQYI

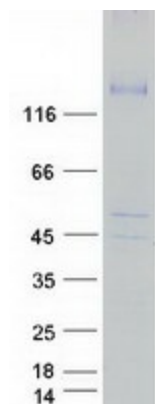
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK



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Predicted MW:	157.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000044
Locus ID:	540
UniProt ID:	P35670 , A0A024RDX3 , B7ZLR4
RefSeq Size:	6644
Cytogenetics:	13q14.3
RefSeq ORF:	4395
Synonyms:	PWD; WC1; WD; WND
Summary:	This gene is a member of the P-type cation transport ATPase family and encodes a protein with several membrane-spanning domains, an ATPase consensus sequence, a hinge domain, a phosphorylation site, and at least 2 putative copper-binding sites. This protein is a monomer, and functions as a copper-transporting ATPase which exports copper out of the cells, such as the efflux of hepatic copper into the bile. Alternate transcriptional splice variants, encoding different isoforms with distinct cellular localizations, have been characterized. Mutations in this gene have been associated with Wilson disease which is characterized by copper accumulation. [provided by RefSeq, Dec 2019]
Protein Families:	Druggable Genome, Transmembrane

Product images:

Coomassie blue staining of purified ATP7B protein (Cat# [TP323635]). The protein was produced from HEK293T cells transfected with ATP7B cDNA clone (Cat# [RC223635]) using MegaTran 2.0 (Cat# [TT210002]).