

Product datasheet for PH323635

ATP7B (NM_000053) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ATP7B MS Standard C13 and N15-labeled recombinant protein (NP_000044)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC223635
Predicted MW:	157.1 kDa
Protein Sequence:	>RC223635 representing NM_000053 Red=Cloning site Green=Tags(s)

MPEQERQITAREGASRKILSKLSLPTRAWEPAMKKSFAFDNVGYEGGLDGLGPSSQVATSTVRILGMTCC
SCVKSIEDRISNLKGIISMKVSLEQGSATVKYVPSVVCLQQVCHQIGDMGFEASIAEGKAASWPSRSLPA
QEAVVKLRVEGMTQCSCVSSIEGKVRKLQGVVRVKSLSNQEAVITYQPYLIQPEDLRDHVNDMGFEAAI
KSKVAPLSLGPIDIERLQSTNPKRPLSSANQNFNNSETLGHQGSVVTLQLRIDGMHCKSCVLNIEENIG
QLLGVQSIQVSLLENKTAQVKYDPSCTSPVALQRAIEALPPGNFKVSLPDGAEGSGTDHRSSSSHPGSP
RNQVQGTCSSTL IAIAGMTCASCVHSIEGMISQLEGVQQISVSLAEGTATVLYNPAVISPEELRAAIEDM
GFEASVSESCSTNPLGNHSAGNSMVQTTDGTPTSLQEVAPHTGRLPANHAPDILAKSPQSTRAVAPQKC
FLQIKGMTASCVSNIERNLQKEAGVLSVLVALMAGKAEIKYDPEVIQPLEIAQFIQDLGFEAAVMEDIA
GSDGNIELTITGMTASCVHNIESKLRTRNGITYASVALATSKALVKFDPEIIGPRDIKIIIEEIGFHAS
LAQRNPNAHHLDHKMEIKQWKSFLCSLVFGIPVMALMIYMLIPSNPHQSMVLDHNIIPGLSILNLIFF
ILCTFVQLLGGWYFYVQAYKSLRHSANMDVLIIVLATSIAVYVSLVILVVAVAEGAERSPVTFDDTPPML
FVFIALGRWLEHLAKSKTSEALAKLMSLQATEAVVTLGEDNLI IREEQVPMELVQRGDIIVRVVPGGKFP
VDGKVLGNTMADESLITGEAMPVTKKPGSTVIAGSINAHGSVL IKATHVGNDDTLAQIVKLVEEAQMSK
APIQQLADRFSGYFVPIIIMSTLTLVWVIVIGFIDFGVVQKYFPNPNKHISQTEVIRFAFQTSITVLC
IACPCSLGLATPTAVMVGTVGAAQNGILIKGGKPLEMAHKIKTVMFDKTGTITHGVPRVMRVLVLLGDVAT
LPLRKLAVVGTAEASSEHPLGVAVTKYCKEELGTETLGYCTDFQAVPGCGIGCKVSNVEGILAHSERPL
SAPASHLNEAGSLPAEKDAAPQTFSVLIGNREWLRNRGLTISSDVSDAMTDHEMKGQTAILVAIDGVLGG
MIAIADAVKQEAALAVHTLQSMGVVVLITGDNRTARAIATQVGINVKVFAEVLPSHKVAKVQELQKNGK
KVAMVGDGVNDSPALAQADMGVAIGTGTDAIEAADVVLIRNDLLDVVASIHL SKRTVRRIRINLVLALI
YNLVGIPAAAGVFMPIGIVLQPWMSAAMAASSVSVLSSLQLKCYKPKDLERYEAQAHGHMKPLTASQV
SVHIGMDDRWRDSPRATPWDQVSVYSQVSSLTSDKPSRHSAAADDDGDKWSLLLNDRDEEQYI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

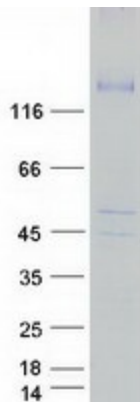
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining



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Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000044
RefSeq Size:	6644
RefSeq ORF:	4395
Synonyms:	PWD; WC1; WD; WND
Locus ID:	540
UniProt ID:	P35670 , A0A024RDX3 , B7ZLR4
Cytogenetics:	13q14.3
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]).