

Human ATP7B Knockdown Cell Lysate

Cat. No. ATP7B-498HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated ATP7B Knockdown HT-1080 Cell Lysate
Species	Human
Source	HT-1080
Description	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.
Form	Cell-Tissue Lysis buffer
Molecular Mass	157 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HT-1080 cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
Storage	Store at -20 centigrade for two years.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HT-1080 cell lysate 1 vial of 100 µg ATP7B KD HT-1080 cell lysate
Protein Families	Druggable Genome, Transmembrane
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	ATP7B ATPase, Cu ⁺⁺ transporting, beta polypeptide [Homo sapiens (human)]
Official Symbol	ATP7B
Synonyms	ATP7B; ATPase, Cu ⁺⁺ transporting, beta polypeptide; ATPase, Cu ⁺⁺ transporting, beta polypeptide (Wilson disease), WND; copper-transporting ATPase 2; Wilson disease; copper pump 2; Wilson disease-associated protein; ATPase, Cu(2+)-transporting, beta polypeptide; WD; PWD; WC1; WND;
Gene ID	540
mRNA Refseq	NM_000053
Protein Refseq	NP_000044
MIM	606882
UniProt ID	P35670

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