

## Human ATP7B Knockdown Cell Lysate

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | WB-validated ATP7B Knockdown HT-1080 Cell Lysate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | HT-1080                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | <p>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.</p> |
| <b>Form</b>             | Cell-Tissue Lysis buffer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 157 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Notes</b>            | <p>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.</p>                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>          | Store at -20 centigrade for two years.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

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

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                  |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ATP7B ATPase, Cu <sup>++</sup> transporting, beta polypeptide [ Homo sapiens (human) ]                                                                                                                                                                                                                           |
| <b>Official Symbol</b> | ATP7B                                                                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>        | ATP7B; ATPase, Cu <sup>++</sup> transporting, beta polypeptide; ATPase, Cu <sup>++</sup> 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; |
| <b>Gene ID</b>         | 540                                                                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>     | NM_000053                                                                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>  | NP_000044                                                                                                                                                                                                                                                                                                        |
| <b>MIM</b>             | 606882                                                                                                                                                                                                                                                                                                           |
| <b>UniProt ID</b>      | P35670                                                                                                                                                                                                                                                                                                           |

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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