

## Human RPN1 Knockdown Cell Lysate

**Cat. No.** RPN1-421HKCL    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | WB-validated RPN1 Knockdown HeLa Cell Lysate                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | HeLa                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | This gene encodes a type I integral membrane protein found only in the rough endoplasmic reticulum. The encoded protein is part of an N-oligosaccharyl transferase complex that links high mannose oligosaccharides to asparagine residues found in the Asn-X-Ser/Thr consensus motif of nascent polypeptide chains. This protein forms part of the regulatory subunit of the 26S proteasome and may mediate binding of ubiquitin-like domains to this proteasome. |
| <b>Form</b>             | Cell-Tissue Lysis buffer                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 69 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Notes</b>            | Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa 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.                                                                                                                                                                                   |
| <b>Storage</b>          | Store at -20 centigrade for two years.                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Concentration</b>    | Lot-specific                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                         |                                                                                |
|-------------------------|--------------------------------------------------------------------------------|
| <b>Shipping</b>         | Blue Ice                                                                       |
| <b>Components</b>       | 1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg RPN1 KD HeLa cell lysate |
| <b>Protein Families</b> | Transmembrane                                                                  |
| <b>Protein Pathways</b> | Metabolic pathways, N-Glycan biosynthesis                                      |
| <b>Lysate QC</b>        | RT-qPCR; Western Blotting (WB)                                                 |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | RPN1 ribophorin I [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                                             |
| <b>Official Symbol</b> | RPN1                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>        | RPN1; ribophorin I; dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1; oligosaccharyltransferase 1 homolog (S. cerevisiae); OST1; RPN-I; ribophorin-1; oligosaccharyltransferase 1 homolog; dolichyl-diphosphooligosaccharide-protein glycosyltransferase 67 kDa subunit; dolichyl-diphosphooligosaccharide--protein glycosyltransferase 67 kDa subunit; RBPH1; DKFZp686B16177; |
| <b>Gene ID</b>         | 6184                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>     | NM_002950                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>  | NP_002941                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>MIM</b>             | 180470                                                                                                                                                                                                                                                                                                                                                                                                 |

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UniProt ID

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