

## Human DNM1 Knockdown Cell Lysate

**Cat. No.** DNM1-140HKCL    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | WB-validated DNM1 Knockdown HeLa Cell Lysate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | HeLa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | <p>This gene encodes a member of the dynamin subfamily of GTP-binding proteins. The encoded protein possesses unique mechanochemical properties used to tubulate and sever membranes, and is involved in clathrin-mediated endocytosis and other vesicular trafficking processes. Actin and other cytoskeletal proteins act as binding partners for the encoded protein, which can also self-assemble leading to stimulation of GTPase activity. More than sixty highly conserved copies of the 3' region of this gene are found elsewhere in the genome, particularly on chromosomes Y and 15. Alternatively spliced transcript variants encoding different isoforms have been described.</p> |
| <b>Form</b>             | Cell-Tissue Lysis buffer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 97 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Notes</b>            | <p>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.</p>                                                                                                                                                                                                                                                                                                                                                                                                        |

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|                         |                                                                                |
|-------------------------|--------------------------------------------------------------------------------|
| <b>Storage</b>          | Store at -20 centigrade for two years.                                         |
| <b>Concentration</b>    | Lot-specific                                                                   |
| <b>Shipping</b>         | Blue Ice                                                                       |
| <b>Components</b>       | 1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg DNM1 KD HeLa cell lysate |
| <b>Protein Families</b> | Druggable Genome                                                               |
| <b>Protein Pathways</b> | Endocytosis, Fc gamma R-mediated phagocytosis                                  |
| <b>Lysate QC</b>        | RT-qPCR; Western Blotting (WB)                                                 |

## GENE INFORMATION

|                        |                                         |
|------------------------|-----------------------------------------|
| <b>Gene Name</b>       | DNM1 dynamin 1 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | DNM1                                    |
| <b>Synonyms</b>        | DNM1; dynamin 1; DNM; dynamin-1;        |
| <b>Gene ID</b>         | 1759                                    |
| <b>mRNA Refseq</b>     | NM_001005336                            |
| <b>Protein Refseq</b>  | NP_001005336                            |
| <b>MIM</b>             | 602377                                  |
| <b>UniProt ID</b>      | Q05193                                  |

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