

## Human DYNLL1 Knockdown Cell Lysate

**Cat. No.** DYNLL1-341HKCL    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | WB-validated DYNLL1 Knockdown HeLa Cell Lysate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | HeLa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | <p>Cytoplasmic dyneins are large enzyme complexes with a molecular mass of about 1,200 kD. They contain two force-producing heads formed primarily from dynein heavy chains, and stalks linking the heads to a basal domain, which contains a varying number of accessory intermediate chains. The complex is involved in intracellular transport and motility. The protein described in this record is a light chain and exists as part of this complex but also physically interacts with and inhibits the activity of neuronal nitric oxide synthase. Binding of this protein destabilizes the neuronal nitric oxide synthase dimer, a conformation necessary for activity, and it may regulate numerous biologic processes through its effects on nitric oxide synthase activity. Alternate transcriptional splice variants have been characterized.</p> |
| <b>Form</b>             | Cell-Tissue Lysis buffer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | 10 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 DYNLL1 KD HeLa cell lysate |
| <b>Lysate QC</b>     | RT-qPCR; Western Blotting (WB)                                                   |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | DYNLL1 dynein, light chain, LC8-type 1 [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                     |
| <b>Official Symbol</b> | DYNLL1                                                                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>        | DYNLL1; dynein, light chain, LC8-type 1; DNCL1, dynein, cytoplasmic, light polypeptide 1; dynein light chain 1, cytoplasmic; DLC1; DLC8; hdlc1; LC8; PIN; 8 kDa dynein light chain; cytoplasmic dynein light polypeptide; dynein, cytoplasmic, light polypeptide 1; protein inhibitor of neuronal nitric oxide synthase; LC8a; DNCL1; DNCLC1; MGC126137; MGC126138; |
| <b>Gene ID</b>         | 8655                                                                                                                                                                                                                                                                                                                                                                |
| <b>mRNA Refseq</b>     | NM_001037494                                                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>  | NP_001032583                                                                                                                                                                                                                                                                                                                                                        |
| <b>MIM</b>             | 601562                                                                                                                                                                                                                                                                                                                                                              |
| <b>UniProt ID</b>      | P63167                                                                                                                                                                                                                                                                                                                                                              |

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