

## Human BCL2L1 Knockdown Cell Lysate

**Cat. No.** BCL2L1-070HKCL    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | WB-validated BCL2L1 Knockdown HeLa Cell Lysate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | HeLa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | <p>The protein encoded by this gene belongs to the BCL-2 protein family. BCL-2 family members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. The proteins encoded by this gene are located at the outer mitochondrial membrane, and have been shown to regulate outer mitochondrial membrane channel (VDAC) opening. VDAC regulates mitochondrial membrane potential, and thus controls the production of reactive oxygen species and release of cytochrome C by mitochondria, both of which are the potent inducers of cell apoptosis. Alternative splicing results in multiple transcript variants encoding two different isoforms. The longer isoform acts as an apoptotic inhibitor and the shorter isoform acts as an apoptotic activator.</p> |
| <b>Form</b>             | Cell-Tissue Lysis buffer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | 26 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 BCL2L1 KD HeLa cell lysate                                                                                    |
| <b>Protein Families</b> | Druggable Genome, ES Cell Differentiation/IPS, Transmembrane                                                                                                        |
| <b>Protein Pathways</b> | Amyotrophic lateral sclerosis (ALS), Apoptosis, Chronic myeloid leukemia, Jak-STAT signaling pathway, Pancreatic cancer, Pathways in cancer, Small cell lung cancer |
| <b>Lysate QC</b>        | RT-qPCR; Western Blotting (WB)                                                                                                                                      |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | BCL2L1 BCL2-like 1 [ Homo sapiens (human) ]                                                                                                                                                                                                                                  |
| <b>Official Symbol</b> | BCL2L1                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>        | BCL2L1; BCL2-like 1; bcl-2-like protein 1; Bcl X; bcl xL; bcl xS; BCL2L; BCLX; PPP1R52; protein phosphatase 1; regulatory subunit 52; apoptosis regulator Bcl-X; protein phosphatase 1, regulatory subunit 52; BCLXL; BCLXS; Bcl-X; bcl-xL; bcl-xS; BCL-XL/S; DKFZp781P2092; |
| <b>Gene ID</b>         | 598                                                                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>     | NM_001191                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>  | NP_001182                                                                                                                                                                                                                                                                    |

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| MIM | 600039 |
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