

## Human DSP Knockdown Cell Lysate

**Cat. No.** DSP-145HKCL    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | WB-validated DSP Knockdown HeLa Cell Lysate                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | HeLa                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | This gene encodes a protein that anchors intermediate filaments to desmosomal plaques and forms an obligate component of functional desmosomes. Mutations in this gene are the cause of several cardiomyopathies and keratodermas, including skin fragility-woolly hair syndrome. Alternative splicing results in multiple transcript variants. |
| <b>Form</b>             | Cell-Tissue Lysis buffer                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>   | 332 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 DSP KD HeLa cell lysate |
| <b>Protein Families</b> | Druggable Genome                                                              |
| <b>Protein Pathways</b> | Arrhythmogenic right ventricular cardiomyopathy (ARVC)                        |
| <b>Lysate QC</b>        | RT-qPCR; Western Blotting (WB)                                                |

## GENE INFORMATION

|                        |                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | DSP desmoplakin [ Homo sapiens (human) ]                                                                                                             |
| <b>Official Symbol</b> | DSP                                                                                                                                                  |
| <b>Synonyms</b>        | DSP; desmoplakin; desmoplakin (DPI, DPII); DPI; DPII; KPPS2; PPKS2; desmoplakin I; desmoplakin II; 250/210 kDa paraneoplastic pemphigus antigen; DP; |
| <b>Gene ID</b>         | 1832                                                                                                                                                 |
| <b>mRNA Refseq</b>     | NM_001008844                                                                                                                                         |
| <b>Protein Refseq</b>  | NP_001008844                                                                                                                                         |
| <b>MIM</b>             | 125647                                                                                                                                               |
| <b>UniProt ID</b>      | P15924                                                                                                                                               |

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