

## Adult Mouse Heart Whole Cell Lysate

**Cat. No.** Heart-071MCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

Ready-to-use whole cell lysates are derived from cell lines or tissues using highly refined extraction protocols to ensure exceptionally high quality, protein integrity and lot-to-lot reproducibility. All extracts are tested by SDS-PAGE using 4-20% gradient gels and immunoblot analysis using antibodies to key cell signaling components to confirm the presence of both high molecular weight and low molecular weight proteins.

#### Species

Mouse

#### Form

Liquid (sterile filtered)

#### Specificity

Tissues were washed exhaustively with PBS to remove blood and other debris. A lysate was prepared by homogenizing the tissue and washing the cells in cold PBS. Washed cells were incubated at 4 centigrade in modified RIPA buffer to lyse the cells. Protein integrity is ensured using a cocktail of protease inhibitors with broad specificity for the inhibition of aspartic, cysteine, and serine proteases as well as aminopeptidases (0.1 mM AEBSF HCl, 0.08  $\mu$ M Aprotinin, 5  $\mu$ M Bestatin, 1.5  $\mu$ M E-64, 2  $\mu$ M Leupeptin Hemisulfate and 1  $\mu$ M Pepstatin A). The following phosphatase inhibitors were also added: 1 mM NaF and 1 mM Na<sub>3</sub>VO<sub>4</sub>. Cell debris was removed by centrifugation and membrane filtration. Protein concentration was determined by Lowry assay using a commercially available kit. The protein concentration was adjusted to 4 mg/mL and then an equal volume of 2× SDS-PAGE sample buffer was added to a final protein concentration of 2 mg/mL.

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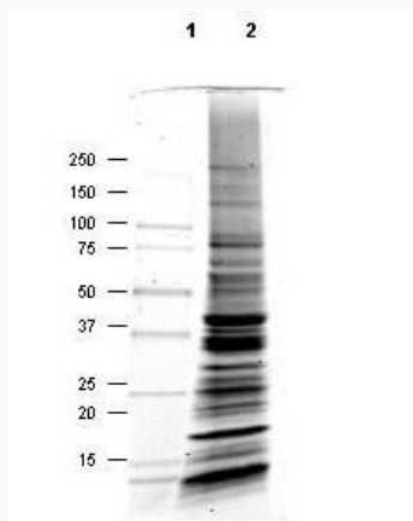
|                             |                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>         | SDS-PAGE                                                                                                       |
| <b>Cell Line</b>            | Primary tissue                                                                                                 |
| <b>Lysate Fractionation</b> | Whole Cell Lysate                                                                                              |
| <b>Lysate Stimulation</b>   | Not Stimulated                                                                                                 |
| <b>Culture Type</b>         | Primary Tissue                                                                                                 |
| <b>Induction</b>            | None (Control)                                                                                                 |
| <b>Concentration</b>        | 2.0 mg/mL by BCA assay                                                                                         |
| <b>Buffer</b>               | 1× SDS-PAGE Sample Buffer (62.5 mM Tris HCl, 2% SDS, 10% Glycerol and 0.005% bromophenol blue, pH 6.8)         |
| <b>Preservative</b>         | None                                                                                                           |
| <b>Stabilizer</b>           | 10% (v/v) Glycerol                                                                                             |
| <b>Shipping</b>             | Dry Ice                                                                                                        |
| <b>Storage</b>              | Store vial at -70 centigrade or COLDER. For extended storage, aliquot contents to minimize freeze/thaw cycles. |
| <b>Expiration</b>           | Expiration date is three months from date of receipt.                                                          |

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## SDS-PAGE



Coomassie stained SDS-PAGE of 30 µg of Normal Mouse Heart Whole Cell Lysate resolved using a 4-20% gradient gel under reducing conditions (lane 2). Molecular weight standards are shown in lane 1.

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