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Datasheet for W10-000-358

# NIH/3T3 Whole Cell Lysate

## Overview

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|---|---|
| **Description:** | NIH/3T3 Whole Cell Lysate - W10-000-358 |
| **Item No.:** | W10-000-358 |
| **Size:** | 500 µg |
| **Applications:** | SDS-PAGE, WB |
| **Origin:** | Mouse |

## Product Details

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| **Background:** | Ready-to-use whole cell lysates produced by Rockland Immunochemicals 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. |
| **Synonyms:** | NIH/3T3 Whole Cell Lysate, NIH/3T3 WCL, NIH/3T3 Lysate, NIH3T3 Lysate |
| **Species of Origin:** | Mouse |

## Target Details

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| **Purity/Specificity:** | The cells were grown in Dulbecco's medium supplemented with 10% fetal bovine serum. Cells were washed with PBS and then incubated on ice in modified RIPA buffer to lyse the cells. Protein integrity was 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 µM Aprotinin, 5 µM Bestatin, 1.5 µM E-64, 2 µM Leupeptin Hemisulfate, 1 µM Pepstatin A). Phosphatase inhibitors 1 mM NaF and 1 mM Na3VO4 were also added. Cell debris was removed by centrifugation. Protein concentration was determined by a modified Lowry assay using a commercially available kit. Protein concentration was adjusted to 2 mg/ml and then an equal volume of 2X SDS-PAGE sample buffer was added. |

## Application Details

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| **Tested Applications:** | SDS-PAGE, WB |

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| **Application Note:** | W10-000-358 has been tested by SDS-PAGE and western blot. Ready-to-use lysates are especially prepared as positive controls for separation by SDS-PAGE and subsequent western blot analysis. Lysates are prepared in denaturing buffer WITHOUT dissociating agents (i.e. no 2-mercaptoethanol or dithiothreitol has been added). Heat lysate to 95° C for 5 minutes and rapidly cool. If dissociating conditions are desired, add reducing agent prior to heating. The recommended loading volume per lane is 10-20 µl depending on the size format of your gel. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **WB:** | User Optimized |

## Cell Line Data

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| **Cell Line:** | NIH Swiss Webster Mouse embryo |
| **Lysate Fractionation:** | Whole Cell Lysate |
| **Lysate Stimulation:** | Not Stimulated |
| **Culture Type:** | Tissue Culture |
| **Induction:** | None (Control) |

## Formulation

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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 1.0 mg/ml by BCA assay |
| **Buffer:** | 1X SDS-PAGE Sample Buffer (62.5 mM Tris HCl, 2% SDS, 10% Glycerol and 0.005% bromophenol blue, pH 6.8) |
| **Preservative:** | None |
| **Stabilizer:** | 10% (v/v) Glycerol |

## Shipping & Handling

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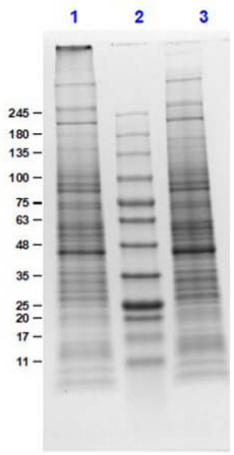
| **Shipping Condition:** | Dry Ice |
| **Storage Condition:** | Store vial at -70° C or COLDER. For extended storage, aliquot contents to minimize freeze/thaw cycles. |
| **Expiration:** | Expiration date is three (3) months from date of receipt. |

## Images




**SDS-PAGE**
SDS-PAGE of NIH-3T3 Whole Cell Lysate. Lane 1: NIH-3T3 Whole Cell Lysate Reduced (10µg). Lane 2: Opal Prestained Molecular Weight Marker (p/n MB-210-0500). Lane 3: NIH-3T3 Whole Cell Lysate Non-Reduced (10µg). 4-20% Gel, Coomassie Stained.

## References


- Mendez Q et al. Sprinkling in extra validation for high-value PTMs and therapeutic Abs with MILKSHAKE Western blots and Sundae ELISAs. *N Biotechnol.* (2025)


## Disclaimer