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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for W09-001-GK8

# HL-60 Whole Cell Lysate

## Overview

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| **Description:** | HL-60 Whole Cell Lysate - W09-001-GK8 |
| **Item No.:** | W09-001-GK8 |
| **Size:** | 500 µg |
| **Applications:** | SDS-PAGE |
| **Origin:** | Human |

## Product Details

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| **Background:** | Multi-purpose HL-60 Whole Cell Lysates produced by Rockland Immunochemicals are derived from cell lines 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. |
| **Synonyms:** | HL-60 Lysate, Cell Lysate, HL60 lysate |
| **Species of Origin:** | Human |

## Target Details

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| **Purity/Specificity:** | HL-60 cells were grown in Ioscove'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 4 mg/ml with 1X RIPA buffer. |

## Application Details

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

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| **Application Note:** | W09-001-GK8 has been tested by SDS-PAGE. Multi-purpose HL-60 Whole Cell Lysate are especially prepared as positive control for multiple assays including western blot, immunoprecipitation (IP), capture ELISA or other assays requiring native protein sample. For separation by SDS-PAGE and subsequent western blot analysis, lysates should be diluted by user to desired concentration in SDS-PAGE buffer with 2-mercaptoethanol or dithiothreitol as the reducing agent and heated to 95° C for 5 minutes. Sample is ready for use in immunoprecipitation and ELISA experiments, conditions should be optimized by the user. Rockland recommends its TrueBlot IP reagents for immunoprecipitation experiments. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **ChIP:** | User Optimized |
| **IP:** | User Optimized |
| **WB:** | User Optimized |

## Cell Line Data

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| **Cell Line:** | Human - promyeloblast, acute promyelocytic leukemia |
| **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:** | 4mg/mL by BCA assay |
| **Buffer:** | 1X RIPA Buffer with HALT Protease and Phosphatase Inhibitors |
| **Preservative:** | None |
| **Stabilizer:** | None |

## Shipping & Handling

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| **Shipping Condition:** | Dry Ice |
| **Storage Condition:** | Store vial at -70° C or COLDER. For extended storage, aliquot lysate to minimize freeze/thaw cycles. |

**Expiration:** Expiration date is three (3) months from date of receipt.

## Disclaimer

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