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Datasheet for W09-001-GL3

# HT-1080 Whole Cell Lysate

## Overview

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| **Description:** | HT-1080 Whole Cell Lysate - W09-001-GL3 |
| **Item No.:** | W09-001-GL3 |
| **Size:** | 500 µg |
| **Applications:** | SDS-PAGE |
| **Origin:** | Human |

## Product Details

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| **Background:** | Multi-purpose HT-1080 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:** | HT-1080 Lysate, Cell Lysate, HT1080 lysate |
| **Species of Origin:** | Human |

## Target Details

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| **Purity/Specificity:** | HT-1080 cells were grown in Eagle's Minimum Essential 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-GL3 has been tested by SDS-PAGE. Multi-purpose HT-1080 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 |
| **FC:** | User Optimized |
| **IP:** | User Optimized |
| **WB:** | User Optimized |

## Cell Line Data

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| **Cell Line:** | Human - Connective tissue |
| **Lysate Fractionation:** | Whole Cell Lysate |
| **Lysate Stimulation:** | Not Stimulated |
| **Culture Type:** | Tissue Culture |
| **Induction:** | None (Control) |

## Formulation

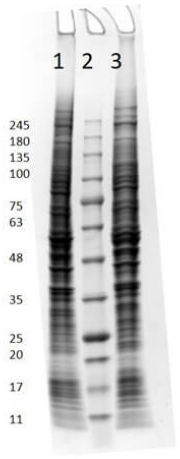
| | |
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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 4.0 mg/ml by BCA assay |
| **Buffer:** | 1X RIPA Buffer with HALT Protease and Phosphatase Inhibitors |
| **Preservative:** | None |
| **Stabilizer:** | None |

## Shipping & Handling

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| **Shipping Condition:** | Dry Ice |

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| **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. |

## Images




**SDS-PAGE**
SDS PAGE Results of HT-1080 Whole Cell Lysate. Lane 1: HT-1080 Whole Cell Lysate Non-Reduced [10µg]. Lane 2: Opal Prestained Molecular Weight Marker (p/n MB-210-0500). Lane 3: HT-1080 Whole Cell Lysate Reduced [10µg]. 4-20% Gel, Coomassie Stained.

## Disclaimer

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