

**Datasheet for W12-001-GL9****PC-12 Whole Cell Lysate****Overview**

|                      |                                       |
|----------------------|---------------------------------------|
| <b>Description:</b>  | PC-12 Whole Cell Lysate - W12-001-GL9 |
| <b>Item No.:</b>     | W12-001-GL9                           |
| <b>Size:</b>         | 500 µg                                |
| <b>Applications:</b> | SDS-PAGE                              |
| <b>Origin:</b>       | Rat                                   |

**Product Details**

|                           |                                                                                                                                                                                                                                                                                                          |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>        | Multi-purpose PC-12 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. |
| <b>Synonyms:</b>          | PC12 Lysate, Cell Lysate, PC-12 lysate                                                                                                                                                                                                                                                                   |
| <b>Species of Origin:</b> | Rat                                                                                                                                                                                                                                                                                                      |

**Target Details**

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Purity/Specificity:</b> | PC-12 cells were grown in RPMI-1640 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**

|                             |          |
|-----------------------------|----------|
| <b>Tested Applications:</b> | SDS-PAGE |
|-----------------------------|----------|

**Application Note:** W12-001-GL9 has been tested by SDS-PAGE. Multi-purpose PC-12 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.

|                         |                                                                                                 |
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| <b>Assay Dilutions:</b> | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| <b>ChIP:</b>            | User Optimized                                                                                  |
| <b>IP:</b>              | User Optimized                                                                                  |
| <b>WB:</b>              | User Optimized                                                                                  |

## Cell Line Data

|                              |                     |
|------------------------------|---------------------|
| <b>Cell Line:</b>            | Rat - adrenal gland |
| <b>Lysate Fractionation:</b> | Whole Cell Lysate   |
| <b>Lysate Stimulation:</b>   | Not Stimulated      |
| <b>Culture Type:</b>         | Tissue Culture      |
| <b>Induction:</b>            | None (Control)      |

## Formulation

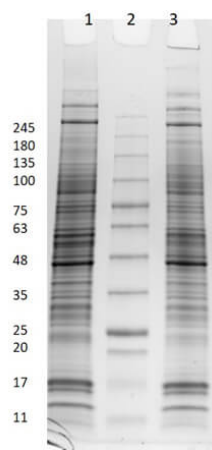
|                        |                                                              |
|------------------------|--------------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                                    |
| <b>Concentration:</b>  | 4.0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

## Shipping & Handling

|                            |                                                                                                      |
|----------------------------|------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Dry Ice                                                                                              |
| <b>Storage Condition:</b>  | 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 PC-12 Whole Cell Lysate. Lane 1: PC-12 Whole Cell Lysate Reduced [10µg]. Lane 2: Opal Prestained Molecular Weight Marker (p/n MB-210-0500). Lane 3: PC-12 Whole Cell Lysate Non-Reduced [10µg]. 4-20% Gel, Coomassie Stained.

## Disclaimer

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