

## Datasheet for W12-000-T090

## Rat Kidney, adult, Whole Cell Lysate

### Overview

<b>Description:</b>	Rat Kidney, adult, Whole Cell Lysate - W12-000-T090
<b>Item No.:</b>	W12-000-T090
<b>Size:</b>	500 µg
<b>Origin:</b>	Rat

### Product Details

<b>Background:</b>	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.
<b>Synonyms:</b>	Normal Rat Kidney Whole Cell Lysate, Rat Kidney WCL, Rat Kidney Lysate, Rat Kidney adult Whole Cell Lysate
<b>Species of Origin:</b>	Rat

### Target Details

<b>Purity/Specificity:</b>	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° C 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 µM Aprotinin, 5 µM Bestatin, 1.5 µM E-64, 2 µM Leupeptin Hemisulfate and 1 µM Pepstatin A). The following phosphatase inhibitors were also added: 1 mM NaF and 1 mM Na3VO4. 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 2 mg/ml and then an equal volume of 2X SDS-PAGE sample buffer was added.
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### Application Details

<b>Application Note:</b>	Ready-to-use lysates are especially prepared as positive controls for separation by SDS-PAGE
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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.

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**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

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**WB:** User Optimized

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## Cell Line Data

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**Cell Line:** Primary tissue

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**Lysate Fractionation:** Whole Cell Lysate

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**Lysate Stimulation:** Not Stimulated

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**Culture Type:** Primary Tissue

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**Induction:** None (Control)

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## Formulation

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**Physical State:** Liquid (sterile filtered)

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**Concentration:** 1.0 mg/mL by modified Lowry assay

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**Buffer:** 1X SDS-PAGE Sample Buffer (62.5 mM Tris HCl, 2% SDS, 10% Glycerol and 0.005% bromophenol blue, pH 6.8)

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**Preservative:** None

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**Stabilizer:** 10% (v/v) Glycerol

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## 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 contents to minimize freeze/thaw cycles.

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

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## Disclaimer

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