

Adult Rat Liver Whole Cell Lysate

Cat. No. Liver-085RCL Lot. No. (See product label)

SPECIFICATION

Product Overview

Ready-to-use whole cell lysates 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.

Species Rat

Form Liquid (sterile filtered)

Specificity

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 centigrade 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 μ M Aprotinin, 5 μ M Bestatin, 1.5 μ M E-64, 2 μ M Leupeptin Hemisulfate and 1 μ M 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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 45-1 Ramsey Road, Shirley, NY 11967, USA

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| Applications | SDS-PAGE |
| Cell Line | Primary tissue |
| Lysate Fractionation | Whole Cell Lysate |
| Lysate Stimulation | Not Stimulated |
| Culture Type | Primary Tissue |
| Induction | None (Control) |
| Concentration | 1.0 mg/mL by modified Lowry assay |
| Buffer | 1× 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 | Dry Ice |
| Storage | Store vial at -70 centigrade or COLDER. For extended storage, aliquot contents to minimize freeze/thaw cycles. |
| Expiration | Expiration date is three months from date of receipt. |

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