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

Datasheet for W10-000-MQ1

Mouse Lung, Adult, Whole Cell Lysate

Overview

Description:	Mouse Lung, Adult, Whole Cell Lysate - W10-000-MQ1
Item No.:	W10-000-MQ1
Size:	500 µg
Applications:	SDS-PAGE
Origin:	Mouse

Product Details

Background:	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.
Synonyms:	Normal Mouse Lung Whole Cell Lysate, Normal Mouse Lung WCL, Mouse Lung adult Whole Cell Lysate, Adult Mouse Lung Tissue Lysate
Species of Origin:	Mouse

Target Details

Purity/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° 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 BCA 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.

Application Details

Tested Applications:	SDS-PAGE
Application Note:	W10-000-MQ1 has been tested by SDS-PAGE. Ready-to-use lysates are especially prepared as positive controls for separation by SDS-PAGE 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Cell Line Data

Cell Line:	Primary tissue
Lysate Fractionation:	Whole Cell Lysate
Lysate Stimulation:	Not Stimulated
Culture Type:	Primary Tissue
Induction:	None (Control)

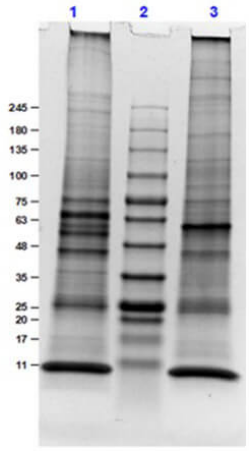
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by BCA assay
Buffer:	1X 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 & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -70° C or COLDER. For extended storage, aliquot contents to minimize freeze/thaw cycles.
Expiration:	Expiration date is three (3) months from date of receipt.

Images



SDS-PAGE
SDS-PAGE Results of Mouse Lung, Adult, Whole Cell Lysate. Lane 1: Mouse Lung, Adult, Whole Cell Lysate (10µg) Reduced. Lane 2: Opal Prestained Molecular Weight Markers (p/n MB-210-0500). Lane 3: Mouse Lung, Adult, Whole Cell Lysate (10µg) Reduced. Results show wide range of molecular weight bands.

Disclaimer

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