

HUMAN LUNG TISSUE LYSATE

Catalog Number: Extraction 1, soluble protein fraction

T1-045-T-1 Human lung tumor tissue lysate 100 μg **T1-045-N-1** Human lung normal tissue lysate (matched) 100 μg

Extraction 2, insoluble protein fraction

T1-045-T-2 Human lung tumor tissue lysate 100 μg
T1-045-N-2 Human lung normal tissue lysate (matched) 100 μg

Diagnosis: Adenocarcinoma. Grade II. Stage II. $T_2N_0M_x$.

Sex / Age: Female, age 51.

Concentration: 1 mg/ml, 100 µg/vial.

The vial is provided with a 10% overfill. Maximum recovery can be obtained by centrifuging the

vial briefly to collect any solution on the cap and tube sides.

Storage: Aliquot single use volumes to avoid repeated freeze/thaw cycles.

From time of receipt, this product is stable for 3 months at -20° C, or 12 months at -70° C.

Lysate Preparation: Tissue specimens are homogenized in modified RIPA buffer to obtain the soluble proteins, and

centrifuged to clarify. The pellet was further extracted with a second buffer to obtain the less soluble protein fraction. The lysate solution may appear turbid at cold temperatures due to insolubility of buffer components. The solution should clear upon warming to room temperature.

Extraction 1: PBS, pH 7.4 1 μg/ml Aprotinin 1 mM NaF

Modified RIPA Buffer: 1 mM EDTA 1 μg/ml Pepstatin-A 0.1% SDS

0.25% Na deoxycholate 1 μg/ml Leupeptin 1 mM PMSF

1 mM Na₃VO₄

Extraction 2: PBS, pH 7.4, 5.0 M Urea, 2.0 M Thiourea, 50mM DTT, 0.1% SDS

Application: These lysates have not been subjected to denaturing or reducing conditions. This allows the tissue

or cell lysate to be used in a variety of applications; to study protein-protein interaction, ligand binding, ELISA, immunoprecipitation, 1D and 2D gel electrophoresis, and Western blotting for the detection of specific protein targets. For use in 1D and 2D gel electrophoresis, the addition of a

denaturing gel loading buffer with reducing agents may be required.

Buffer requirements for performing protein-protein interaction and ligand binding studies can vary significantly from RIPA buffer and may require modifications. In most cases, tissue lysates in

RIPA buffer can be used, directly in standard ELISA and immunoprecipitation assays.

This material has tested negative for HbsAg, HIV 1/2, and HCV. Use *UNIVERSAL PRECAUTIONS* when handling. Human tissue derivatives must be treated as a potentially

infectious agent and disposed of appropriately.

Source: Integrated Laboratory Services-Biotech (ILSbio), Chestertown, MD 21620 www.ilsbio.com

ILS-2153.

For Research Use Only



PATHOLOGY REPORT

Catalog No. T1-045

Tissue: Lung

Location: Right upper lobe.

Diagnosis: Adenoarcinoma, moderately differentiated.

Stage: II $T_2N_0M_x$

Grade: II

Sex: Female

Age: 51 years

Appearance: <u>Macroscopic</u> <u>Characteristics</u> +/-

Organ: Lung Encapsulated: Size: 3 cm. Invaded: +
Color: White Hemorrhagic: Consistency: Friable Cystic degeneration: Cut surface: Homogenous Calcification: -

Histologic pattern: <u>Cell distribution: +/- Structure / Pattern: +/-</u>

Streaming: Diffuse: Mosaic: Storiform: Fibrosis: Necrosis: Lymphocytic infiltration: Pallisading: Cystic degeneration: Vascular invasion: Bleeding: Clusterized: Alveolar formation: Myxoid change: Indian file: Psammoma body:

Cellular differentiation:

Squamous: Adenomatous: Sarcomatous: Round cell: Spindle cell: Glandular cell: Squamoid: Spindle: Cell stratification: Keratin: Secretion: Leiomyoblast: Desmosome: Intracellular vacuole: -Lipoblast: Pearl: Glandular formation: + Rhadomyoblast:

Nuclear atypia: Nuclear Appearance: 0 I II III

Anisonucleosis: X
Hyperchromatism: X
Nucleolar prominent: X
Multinucleated giant cell: X
Mitotic activity: X
Nuclear grade: X