HUMAN LUNG TISSUE LYSATE

Catalog Number:

Extraction 1, soluble protein fraction

T1-016-T-1	**Human lung *tumor* tissue lysate**	100 µg
T1-016-N-1	**Human lung *normal* tissue lysate (matched)**	100 µg

Extraction 2, insoluble protein fraction

T1-016-T-2	**Human lung *tumor* tissue lysate**	100 µg
T1-016-N-2	**Human lung *normal* tissue lysate (matched)**	100 µg

Diagnosis: Large Cell Carcinoma, grade 3, stage III.

Sex / Age: Male, age 55.

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 Na_3VO_4		

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-10101.

For Research Use Only

PROTEIN BIOTECHNOLOGIES

PATHOLOGY REPORT

Catalog No. T1-016

Tissue: Lung

Location: Right lower lobe.

Diagnosis: Large Cell Carcinoma, well differentiated.

Stage: III

Grade: III

Sex: Male

Age: 55 years

Gross findings: Tumor size 5 x 6 cm diameter.

Cut section hard, ivory white.

Microscopic findings: Tumor shows malignant cells. Malignant cells have clear cytoplasm with vacuoles. Nuclei have irregular nuclear membranes, cytoplasm is granular or vacuolated with large nucleoli. Many monstrous nuclei. The malignant cells have invaded into the stroma.

Histologic pattern:

Cell distribution:	***+/-***	***Structure / Pattern:***	***+/-***
Diffuse:	-	Streaming:	-
Mosaic:	+	Storiform:	-
Necrosis:	+	Swirling:	-
Lymphocytic infiltration:	+	Pallisading:	-
Vascular invasion:	-	Cystic degeneration:	-
Clusterized:	+	Bleeding:	-
Alveolar formation:	+	Myxoid change:	-
Indian file:	-	Psammoma body:	-

Cellular differentiation:

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

Nuclear atypia:

NuclearAppearance:	**0**	**I**	**II**	**III**
Anisonucleosis:		X		
Hyperchromatism:		X		
Nucleolar prominent:		X		
Multinucleated giant cell:			X	
Mitotic activity:			X	
Nuclear grade:			X	

1672 Main St. Ste. E #264 • Ramona, CA 92065 • Tel: 760.789.8928 • Fax: 760.789.8929 • Toll Free: 800.475.1955 • www.proteinbiotechnologies.com