



Cat No: **LUC961** - Lung cancer tissue array

Lot#	Cores	Size	Cut	Format	QA/QC		
LUC96101	96	1.5mm	4um	12X8	H&E, IHC anti-Cytokeratin		

Recommended applications: For Research use only. RNA or protein lung cancer/normal tissue profiling using IHC or ISH; Antibody characterization.

Description: Lung cancer tissue array, 96 cores including all the common types of lung cancer (36 cases, purple/blue), normal and inflammatory lung tissues (12 cases, pink) in duplicates. All the tissues were from surgical resection. They were fixed in 10% neutral buffered formalin for 24 hours and processed using identical SOPs. Sections were picked onto Superfrost Plus or APES coated Superfrost slides. They all have a guaranteed six months' shelf-life at 4C from the date of shipment. Each slide has >95% tissue core retention.

Array position	Age	Sex	Anatomic site	Histology	Grade	Stage (TNM)
A1,B1	F	51	Lung	Normal		
A2,B2	M	47	Lung	Normal		
A3,B3	M	59	Lung	Normal		
A4,B4	M	60	Lung	Normal		
A5,B5	M	50	Lung	Inflammatory		
A6,B6	M	64	Lung	Inflammatory		
A7,B7	M	58	Lung	Inflammatory		
A8,B8	M	57	Lung	Inflammatory		
A9,B9	F	43	Lung	Inflammatory		
A10,B10	M	63	Lung	Granuloma		
A11,B11	F	68	Lung	Granuloma		
A12,B12	M	27	Lung	Inflammatory		
C1,D1	M	51	Lung	Squamous cell carcinoma	I	T2N1M0
C2,D2	M	77	Lung	Squamous cell carcinoma	I	T2N0M0
C3,D3	M	51	Lung	Squamous cell carcinoma	II	T2N0M0
C4,D4	M	72	Lung	Squamous cell carcinoma	II	T1N0M0
C5,D5	F	64	Lung	Squamous cell carcinoma	II	T2N0M0
C6,D6	M	76	Lung	Squamous cell carcinoma	II	T2N0M0
C7,D7	M	50	Lung	Squamous cell carcinoma	II	T2N0M0
C8,D8	F	53	Lung	Squamous cell carcinoma	III	T2N0M0
C9,D9	M	74	Lung	Squamous cell carcinoma	III	T2N0M0
C10,D10	F	53	Lung	Squamous cell carcinoma	III	T2N1M0
C11,D11	M	72	Lung	Squamous cell carcinoma	III	T2N0M0
C12,D12	M	65	Lung	Squamous cell carcinoma	III	T2N0M0



Advancing Biomedical Science Through Tissue Arrays

E1,F1	M	50	Lung	Adenomcarcinoma	I	T2N0M0
E2,F2	F	49	Lung	Adenomcarcinoma	I	T2N0M0
E3,F3	F	65	Lung	Adenomcarcinoma	I	T2N0M0
E4,F4	F	55	Lung	Adenomcarcinoma	II	T2N0M0
E5,F5	M	63	Lung	Adenomcarcinoma	II	T2N0M0
E6,F6	F	46	Lung	Adenomcarcinoma	II	T2N0M0
E7,F7	F	41	Lung	Adenomcarcinoma	II	T2N0M0
E8,F8	F	69	Lung	Adenomcarcinoma	II	T2N0M0
E9,F9	F	55	Lung	Adenomcarcinoma	III	T1N0M0
E10,F10	M	51	Lung	Adenomcarcinoma	III	T2N0M0
E11,F11	M	59	Lung	Adenomcarcinoma	III	T2N0M0
E12,F12	M	52	Lung	Adenomcarcinoma	III	T2N0M0
G1,H1	M	53	Lung	Adenosquamous carcinoma		T2N0M0
G2,H2	M	56	Lung	Adenosquamous carcinoma		T2N0M0
G3,H3	F	72	Lung	Adenosquamous carcinoma		T2N0M0
G4,H4	M	48	Lung	Small cell carcinoma		T2N0M0
G5,H5	F	57	Lung	Small cell carcinoma		T2N0M0
G6,H6	M	50	Lung	Small cell carcinoma		T2N2M0
G7,H7	F	80	Lung	Bronchioloalveolar carcinoma		T2N0M0
G8,H8	M	58	Lung	Large cell carcinoma		T2N0M0
G9,H9	M	67	Lung	Papillary carcinoma		T2N0M0
G10,H10	F	55	Lung	Papillary carcinoma		T2N0M0
G11,H11	M	28	Lung	Papillary carcinoma		T2N0M0
G12,H12	F	48	Lung	Papillary carcinoma		T2N0M0

Notes: Please bake the slides at 60C for 30 minutes before use. If antigen retrieving is needed, it is always a good idea to start with a protocol with weak to mild strength.

Certified by: Langxing Pan, M.D.



TNM Classification: Lung carcinoma

T- Primary tumor

- TX - Primary tumor cannot be assessed or tumor proven by the presence of malignant cell in sputum or bronchial washing but not visualized by imaging of bronchoscopy;
- T0 - No evidence of primary tumor;
- Tis- Carcinoma in situ;
- T1 - Tumor 3 cm or less in greatest dimension, surrounded by lung or visceral pleura without bronchoscopic evidence of invasion more proximal than lobular bronchus;
- T2 - Tumor with any of the following features of size or extent; more than 3 cm in greatest dimension; involves main bronchus, 2 cm more proximal to carina; invades visceral pleura; associated with atelectasis or obstructive pneumonitis that extends to the hilar region but not involve the entire lung;
- T3 - Tumor of any size that directly invades any of the followings: chest wall (including superior sulcus tumor), diaphragm, mediastinal pleura, parietal pericardium; tumors in the main bronchus less than 3 cm distal to the carina; associated with atelectasis or obstructive pneumonitis of entire lung;
- T4 - Tumor of any size that invades any of the following: mediastinum, heart, great vessel, trachea, esophagus, vertebral body, carina, separate tumor nodule(s) in the same lobe; tumor with malignant pleural effusion.

N - Regional lymph nodes

- NX - Regional lymph nodes cannot be assessed;
- NO - No regional lymph node metastasis;
- N1 - Metastasis in ipsilateral peribronchial and/or ipsilateral hilar lymph nodes and intrapulmonary nodes, including involvement by direct extension;
- N2 - Metastasis in ipsilateral mediastinal and/or subcarinal lymph nodes;
- N3 - Metastasis in contralateral mediastinal, contralateral hilar, ipsilateral or contralateral scalene, or supraclavicular lymph nodes.

M - Distant metastasis

- MX - Distant metastasis cannot be assessed MO - No distant metastasis;
- M1 - Distant metastasis, including separate tumor nodule(s) in a different lobe (ipsilateral or contralateral).