



Cat No: **LUC1505 - Lung cancer tissue array**

Lot#	Cores	Size	Cut	Format	QA/QC	
LUC1505	150	1.1mm	4um	10X15	H&E, IHC anti-Cytokeratin	

**Recommended applications:** For research use only. Designed for IHC or ISH based protein or RNA tissue profiling in lung adenocarcinomas with clinical data.

**Description:** Lung cancer tissue array (adenocarcinoma), 150 cores from 75 cases, with paired normal tissue from the same patients, and clinical data including treatment and follow up information.

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 can be stored for use at 4C for up to six months from the date of shipment. **There may be 5 to 10% of tissue core loss.**

Array Position	Sex	Age	Anatomic Site	Pathology	Grade	Stage
A01	M	59	Lung	Adenocarcinoma	II	T2N0M0
A02	M	61	Lung	Adenocarcinoma	II	T2N0M0
A03	M	49	Lung	Adenocarcinoma	III	T2N0M0
A04	F	58	Lung	Bronchioloalveolar carcinoma	null	T2N0M0
A05	M	44	Lung	Adenocarcinoma	II	T2N0M0
A06	M	58	Lung	Adenocarcinoma	III	T3N0M0
A07	M	57	Lung	Bronchioloalveolar carcinoma	null	T2N0M0
A08	M	42	Lung	Bronchioloalveolar carcinoma	null	T2N1M0
A09	M	60	Lung	Bronchioloalveolar carcinoma	null	T2N1M0
A10	F	65	Lung	Papillary carcinoma	null	T4N0M0
A11	M	47	Lung	Bronchioloalveolar carcinoma	null	T2N0M0
A12	M	74	Lung	Bronchioloalveolar carcinoma	null	T3N0M0
A13	F	55	Lung	Bronchioloalveolar carcinoma	null	T2N0M0
A14	F	44	Lung	Bronchioloalveolar carcinoma	null	T2N0M0
A15	M	55	Lung	Adenocarcinoma	III	T3N1M0
B01	M	59	Lung	Uninvolved lung tissue of A01	null	null
B02	M	61	Lung	Uninvolved lung tissue of A02	null	null
B03	M	49	Lung	Uninvolved lung tissue of A03	null	null
B04	F	58	Lung	Uninvolved lung tissue of A04	null	null
B05	M	44	Lung	Uninvolved lung tissue of A05	null	null
B06	M	58	Lung	Uninvolved lung tissue of A06	null	null
B07	M	57	Lung	Uninvolved lung tissue of A07	null	null
B08	M	42	Lung	Uninvolved lung tissue of A08	null	null
B09	M	60	Lung	Uninvolved lung tissue of A09	null	null
B10	F	65	Lung	Uninvolved lung tissue of A10	null	null
B11	M	47	Lung	Uninvolved lung tissue of A11	null	null
B12	M	74	Lung	Uninvolved lung tissue of A12	null	null
B13	F	55	Lung	Uninvolved lung tissue of A13	null	null
B14	F	44	Lung	Uninvolved lung tissue of A14	null	null
B15	M	55	Lung	Uninvolved lung tissue of A15	null	null
C01	M	70	Lung	Bronchioloalveolar carcinoma	null	T3N1M0
C02	M	63	Lung	Adenocarcinoma	II~III	T2N1M0
C03	M	60	Lung	Adenocarcinoma	II~III	T2N1M0
C04	F	65	Lung	Adenocarcinoma	II	T2N1M0
C05	M	60	Lung	Adenocarcinoma	II	T2N0M0
C06	M	80	Lung	Adenocarcinoma	II~III	T3N0M0
C07	M	66	Lung	Adenocarcinoma	II~III	T2N0M0
C08	M	45	Lung	Bronchioloalveolar carcinoma	null	T2N1M0
C09	M	52	Lung	Adenocarcinoma	II	T2N1M0



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C10	F	58	Lung	Adenocarcinoma	III	T2N1M0
C11	F	64	Lung	Bronchioloalveolar carcinoma	null	T2N0M0
C12	M	70	Lung	Adenocarcinoma	II	T2N1M0
C13	F	39	Lung	Adenocarcinoma	II	T2N1M0
C14	F	59	Lung	Papillary carcinoma	null	T2N1M0
C15	F	37	Lung	Adenocarcinoma	II	T2N0M0
D01	M	70	Lung	Uninvolved lung tissue of C01	null	null
D02	M	63	Lung	Uninvolved lung tissue of C02	null	null
D03	M	60	Lung	Uninvolved lung tissue of C03	null	null
D04	F	65	Lung	Uninvolved lung tissue of C04	null	null
D05	M	60	Lung	Uninvolved lung tissue of C05	null	null
D06	M	80	Lung	Uninvolved lung tissue of C06	null	null
D07	M	66	Lung	Uninvolved lung tissue of C07	null	null
D08	M	45	Lung	Uninvolved lung tissue of C08	null	null
D09	M	52	Lung	Uninvolved lung tissue of C09	null	null
D10	F	58	Lung	Uninvolved lung tissue of C10	null	null
D11	F	64	Lung	Uninvolved lung tissue of C11	null	null
D12	M	70	Lung	Uninvolved lung tissue of C12	null	null
D13	F	39	Lung	Uninvolved lung tissue of C13	null	null
D14	F	59	Lung	Uninvolved lung tissue of C14	null	null
D15	F	37	Lung	Uninvolved lung tissue of C15	null	null
E01	M	69	Lung	Adenocarcinoma	II	T2N1M0
E02	F	55	Lung	Adenocarcinoma	I~II	T2N0M0
E03	M	72	Lung	Adenocarcinoma	II	T2N0M0
E04	M	75	Lung	Adenocarcinoma	II	T2N0M0
E05	F	70	Lung	Adenocarcinoma	II	T1N0M0
E06	F	51	Lung	Adenocarcinoma	II	T2N1M0
E07	M	60	Lung	Adenocarcinoma	II	T2N1M0
E08	M	62	Lung	Bronchioloalveolar carcinoma	null	T1N0M0
E09	F	57	Lung	Bronchioloalveolar carcinoma	null	T2N0M0
E10	F	60	Lung	Bronchioloalveolar carcinoma	null	T2N0M0
E11	F	53	Lung	Adenocarcinoma	II	T2N1M0
E12	F	32	Lung	Adenocarcinoma	II~III	T1N0M0
E13	F	69	Lung	Adenocarcinoma	II	T2N0M0
E14	M	57	Lung	Adenocarcinoma	III	T1N0M0
E15	F	61	Lung	Adenocarcinoma	III	T2N1M0
F01	M	69	Lung	Uninvolved lung tissue of E01	null	null
F02	F	55	Lung	Uninvolved lung tissue of E02	null	null
F03	M	72	Lung	Uninvolved lung tissue of E03	null	null
F04	M	75	Lung	Uninvolved lung tissue of E04	null	null
F05	F	70	Lung	Uninvolved lung tissue of E05	null	null
F06	F	51	Lung	Uninvolved lung tissue of E06	null	null
F07	M	60	Lung	Uninvolved lung tissue of E07	null	null
F08	M	62	Lung	Uninvolved lung tissue of E08	null	null
F09	F	57	Lung	Uninvolved lung tissue of E09	null	null
F10	F	60	Lung	Uninvolved lung tissue of E10	null	null
F11	F	53	Lung	Uninvolved lung tissue of E11	null	null
F12	F	32	Lung	Uninvolved lung tissue of E12	null	null
F13	F	69	Lung	Uninvolved lung tissue of E13	null	null
F14	M	57	Lung	Uninvolved lung tissue of E14	null	null
F15	F	61	Lung	Uninvolved lung tissue of E15	null	null
G01	F	64	Lung	Adenocarcinoma	II	T2N0M0
G02	M	55	Lung	Bronchioloalveolar carcinoma	null	T2N1M0
G03	F	51	Lung	Adenocarcinoma	II	T2N1M0
G04	F	40	Lung	Adenocarcinoma	II	T2N1M0
G05	M	61	Lung	Adenocarcinoma	II~III	T2N0M0
G06	M	55	Lung	Adenocarcinoma	II	T2N0M0
G07	M	73	Lung	Adenocarcinoma	III	T2N1M0
G08	M	67	Lung	Papillary carcinoma	null	T2N0M0
G09	M	58	Lung	Adenocarcinoma	III	T2N0M0



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G10	F	61	Lung	Adenocarcinoma	II	T1N0M0
G11	F	57	Lung	Adenocarcinoma	III	T2N1M0
G12	M	67	Lung	Mucinous adenocarcinoma	null	T1N1M0
G13	F	59	Lung	Adenocarcinoma	III	T2N0M0
G14	M	60	Lung	Adenocarcinoma	III	T2N0M0
G15	M	53	Lung	Adenocarcinoma	III	T2N1M0
H01	F	64	Lung	Uninvolved lung tissue of G01	null	null
H02	M	55	Lung	Uninvolved lung tissue of G02	null	null
H03	F	51	Lung	Uninvolved lung tissue of G03	null	null
H04	F	40	Lung	Uninvolved lung tissue of G04	null	null
H05	M	61	Lung	Uninvolved lung tissue of G05	null	null
H06	M	55	Lung	Uninvolved lung tissue of G06	null	null
H07	M	73	Lung	Uninvolved lung tissue of G07	null	null
H08	M	67	Lung	Uninvolved lung tissue of G08	null	null
H09	M	58	Lung	Uninvolved lung tissue of G09	null	null
H10	F	61	Lung	Uninvolved lung tissue of G10	null	null
H11	F	57	Lung	Uninvolved lung tissue of G11	null	null
H12	M	67	Lung	Uninvolved lung tissue of G12	null	null
H13	F	59	Lung	Uninvolved lung tissue of G13	null	null
H14	M	60	Lung	Uninvolved lung tissue of G14	null	null
H15	M	53	Lung	Uninvolved lung tissue of G15	null	null
I01	M	54	Lung	Adenocarcinoma	III	T2N0M0
I02	M	57	Lung	Adenocarcinoma	III	T2N0M0
I03	M	61	Lung	Adenocarcinoma	null	T2N0M0
I04	F	48	Lung	Adenocarcinoma	III	T1N1M0
I05	M	60	Lung	Adenocarcinoma	null	T2N0M0
I06	M	58	Lung	Adenocarcinoma	II	T2N1M0
I07	F	47	Lung	Adenocarcinoma	III	T2N0M0
I08	F	56	Lung	Adenocarcinoma	II	T2N1M0
I09	F	60	Lung	Adenocarcinoma	null	T2N0M0
I10	M	73	Lung	Adenocarcinoma	II	T1N0M0
I11	F	70	Lung	Bronchioloalveolar carcinoma	null	T2N0M0
I12	M	62	Lung	Adenocarcinoma	III	T2N0M0
I13	F	60	Lung	Adenocarcinoma	II	T2N0M0
I14	F	53	Lung	Adenocarcinoma	null	T2N0M0
I15	M	59	Lung	Adenocarcinoma	III	T2N0M0
J01	M	54	Lung	Uninvolved lung tissue of I01	null	null
J02	M	57	Lung	Uninvolved lung tissue of I02	null	null
J03	M	61	Lung	Uninvolved lung tissue of I03	null	null
J04	F	48	Lung	Uninvolved lung tissue of I04	null	null
J05	M	60	Lung	Uninvolved lung tissue of I05	null	null
J06	M	58	Lung	Uninvolved lung tissue of I06	null	null
J07	F	47	Lung	Uninvolved lung tissue of I07	null	null
J08	F	56	Lung	Uninvolved lung tissue of I08	null	null
J09	F	60	Lung	Uninvolved lung tissue of I09	null	null
J10	M	73	Lung	Uninvolved lung tissue of I10	null	null
J11	F	70	Lung	Uninvolved lung tissue of I11	null	null
J12	M	62	Lung	Uninvolved lung tissue of I12	null	null
J13	F	60	Lung	Uninvolved lung tissue of I13	null	null
J14	F	53	Lung	Uninvolved lung tissue of I14	null	null
J15	M	59	Lung	Uninvolved lung tissue of I15	null	null

**Notes:** Bake at 60C for ~60 minutes before use. If antigen retrieving is needed, it is important to avoid **direct-boiling and high pH or high strength** antigen retrieving buffer. For availability of complimentary IHC data, please contact us at [info@pantomics.com](mailto:info@pantomics.com).

**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;

TO - 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).