

# Data Sheet

**Product Name:** Lung Disease Tissue Array - 24 cases of normal, chronic bronchitis, emphysema, TB and tumor tissues of the lung in duplicates.

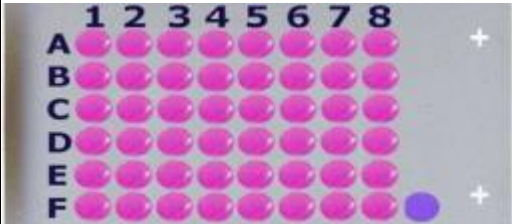
**Catalog No.:** Z7020069

**Lot No.:** C511002

**Species:**  Human  Mouse  Rat  Monkey (Rh)  Guinea Pig  Porcine  
 Bovine  Hamster  Dog  Monkey (Cy)  Rabbit  Plant

**Tissue Type:**  Normal  Adult  Fetal  Tumor  Disease  Cell line

**Tissue Array Diagram:**

| Cores | Size | Cut  | Format | QA/QC                     |  |
|-------|------|------|--------|---------------------------|--|
| 48    | 2 mm | 4 µm | 6X8    | H&E, IHC anti-Cytokeratin |  |

**Recommended Application:** For research use only. Designed for IHC or ISH based protein or RNA tissue profiling in various lung diseases.

**Description:** Lung disease tissue array, non-overlapping with Z7020068, 24 cases of normal, chronic bronchitis, emphysema, TB and tumor tissues of the lung in duplicates.

All tissues were fixed in 10% neutral buffered formalin for 24 hours and processed using identical SOPs. Sections were picked onto Superfrost Plus or Startfrost Adhesive slides. They all have a guaranteed six month shelf-life at 4C from the date of shipment. Additional cores not listed are orientation markers and have no data. There may be <5% core loss per slide but the core retention rate should be >90%

| Array Position | Sex | Age | Anatomic Site | Pathology                                       | Grade | Stage (TNM) |
|----------------|-----|-----|---------------|---|-------|-------------|
| A01            | M   | 16  | Trachea*      | Normal trachea*                                 |       |             |
| A02            | M   | 52  | Lung          | Normal bronchus                                 |       |             |
| A03            | M   | 52  | Lung          | Chronic bronchitis (small broncus)              |       |             |
| A04            | F   | 40  | Lung          | Normal lung with bronchus                       |       |             |
| A05            | M   | 19  | Lung          | Normal lung                                     |       |             |
| A06            | F   | 59  | Lung          | Normal lung with bronchus                       |       |             |
| A07            | F   | 53  | Lung          | Normal lung                                     |       |             |
| A08            | M   | 71  | Lung          | Chronic bronchitis with goblet cell hyperplasia |       |             |
| B01            | M   | 16  | Trachea*      | Normal trachea*                                 |       |             |
| B02            | M   | 52  | Lung          | Normal bronchus                                 |       |             |

|     |   |    |      |   |      |        |
|-----|---|----|------|---|------|--------|
| B03 | M | 52 | Lung | Chronic bronchitis (small broncus)              |      |        |
| B04 | F | 40 | Lung | Normal lung with bronchus                       |      |        |
| B05 | M | 19 | Lung | Normal lung                                     |      |        |
| B06 | F | 59 | Lung | Normal lung with bronchus                       |      |        |
| B07 | F | 53 | Lung | Normal lung                                     |      |        |
| B08 | M | 71 | Lung | Chronic bronchitis with goblet cell hyperplasia |      |        |
| C01 | M | 61 | Lung | Chronic bronchitis                              |      |        |
| C02 | M | 40 | Lung | Bronchiectasis                                  |      |        |
| C03 | M | 66 | Lung | Emphysema                                       |      |        |
| C04 | F | 50 | Lung | Emphysema                                       |      |        |
| C05 | M | 57 | Lung | Chronic pneumonia                               |      |        |
| C06 | M | 56 | Lung | Tuberculosis, TB granuloma                      |      |        |
| C07 | M | 60 | Lung | Adenocarcinoma                                  | II   | T2N0M0 |
| C08 | M | 42 | Lung | Adenocarcinoma                                  | II   | T2N0M0 |
| D01 | M | 61 | Lung | Chronic bronchitis                              |      |        |
| D02 | M | 40 | Lung | Bronchiectasis                                  |      |        |
| D03 | M | 66 | Lung | Emphysema                                       |      |        |
| D04 | F | 50 | Lung | Emphysema                                       |      |        |
| D05 | M | 57 | Lung | Chronic pneumonia                               |      |        |
| D06 | M | 56 | Lung | Tuberculosis, TB granuloma                      |      |        |
| D07 | M | 60 | Lung | Adenocarcinoma                                  | II   | T2N0M0 |
| D08 | M | 42 | Lung | Adenocarcinoma                                  | II   | T2N0M0 |
| E01 | M | 72 | Lung | Adenocarcinoma                                  | III  | T2N0M0 |
| E02 | F | 65 | Lung | Papillary adenocarcinoma                        |      | T4N0M0 |
| E03 | M | 62 | Lung | Squamous cell carcinoma                         | I~II | T2N1M0 |
| E04 | M | 58 | Lung | Squamous cell carcinoma                         | II   | T2N0M0 |
| E05 | M | 50 | Lung | Squamous cell carcinoma                         | III  | T2N0M0 |
| E06 | M | 55 | Lung | Adenosquamous carcinoma                         |      | T2N1M0 |
| E07 | F | 44 | Lung | Small cell carcinoma                            |      | T2N1M0 |
| E08 | M | 48 | Lung | Undifferentiated carcinoma, large cell          |      | T2N1M0 |
| F01 | M | 72 | Lung | Adenocarcinoma                                  | III  | T2N0M0 |
| F02 | F | 65 | Lung | Papillary adenocarcinoma                        |      | T4N0M0 |
| F03 | M | 62 | Lung | Squamous cell carcinoma                         | I~II | T2N1M0 |
| F04 | M | 58 | Lung | Squamous cell carcinoma                         | II   | T2N0M0 |
| F05 | M | 50 | Lung | Squamous cell carcinoma                         | III  | T2N0M0 |
| F06 | M | 55 | Lung | Adenosquamous carcinoma                         |      | T2N1M0 |
| F07 | F | 44 | Lung | Small cell carcinoma                            |      | T2N1M0 |
| F08 | M | 48 | Lung | Undifferentiated carcinoma,                     |      | T2N1M0 |

| large cell

**Notes:** Bake 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

**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;

N0 - 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 M0 - No distant metastasis;

M1 - Distant metastasis, including separate tumor nodule(s) in a different lobe (ipsilateral or contralateral).

FOR IN VITRO RESEARCH USE ONLY

APPROVED BY: \_\_\_\_\_

