
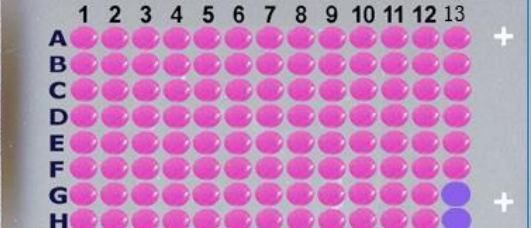


Cat No: THC1021 - Thyroid cancer tissue array

| Lot# | Cores | Size | Cut | Format | QA/QC |  |  |
|-----------|-------|-------|-----|--------|---------------------------|---|--|
| THC102101 | 102 | 1.5mm | 4um | 8X13 | H&E, IHC anti-Cytokeratin | | |

Recommended Application: For research use only. Designed for IHC or ISH based protein or RNA tissue profiling in thyroid cancers.

Description: Thyroid cancer tissue array, 102 cases of normal-benign (5 cases) and cancer (97 cases with grading and TNM staging data) tissues

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 | F | 52 | Thyroid | Normal | null | null |
| A02 | F | 54 | Thyroid | Normal | null | null |
| A03 | M | 60 | Thyroid | Normal | null | null |
| A04 | F | 74 | Thyroid | Normal | null | null |
| A05 | F | 50 | Thyroid | Normal | null | null |
| A06 | M | 60 | Thyroid | Follicular carcinoma | null | T3N0M0 |
| A07 | F | 73 | Thyroid | Follicular carcinoma | null | T2N0M0 |
| A08 | F | 19 | Thyroid | Follicular carcinoma | null | T2N1M0 |
| A09 | F | 66 | Thyroid | Follicular carcinoma | null | T2N0M0 |
| A10 | F | 68 | Thyroid | Follicular carcinoma | null | T2N0M0 |
| A11 | F | 75 | Thyroid | Follicular carcinoma | null | T2N0M0 |
| A12 | M | 66 | Thyroid | Follicular carcinoma | null | T2N0M0 |
| A13 | F | 35 | Thyroid | Follicular carcinoma | null | T2N0M0 |
| B01 | M | 44 | Thyroid | Follicular carcinoma | null | T2N0M0 |
| B02 | F | 52 | Thyroid | Follicular carcinoma | null | T2N0M0 |
| B03 | F | 36 | Thyroid | Follicular carcinoma | null | T1N0M0 |
| B04 | F | 71 | Thyroid | Follicular carcinoma | null | T1N0M0 |
| B05 | M | 54 | Thyroid | Follicular carcinoma | null | T3N0M0 |
| B06 | F | 63 | Thyroid | Follicular carcinoma | null | T2N0M0 |
| B07 | M | 48 | Thyroid | Follicular carcinoma | null | T3N0M0 |
| B08 | F | 44 | Thyroid | Follicular carcinoma | null | T3N0M0 |
| B09 | F | 69 | Thyroid | Follicular carcinoma | null | T2N0M0 |
| B10 | F | 37 | Thyroid | Follicular carcinoma | null | T2N0M0 |
| B11 | F | 73 | Thyroid | Follicular carcinoma | null | T2N0M0 |
| B12 | M | 73 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| B13 | F | 56 | Thyroid | Papillary adenocarcinoma | null | T1N0M0 |
| C01 | F | 56 | Thyroid | Papillary adenocarcinoma | null | T4N1M0 |
| C02 | F | 16 | Thyroid | Papillary adenocarcinoma | null | T3N1M0 |
| C03 | F | 35 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| C04 | F | 27 | Thyroid | Papillary adenocarcinoma | null | T3N1M0 |
| C05 | M | 43 | Thyroid | Papillary adenocarcinoma | null | T2N1M0 |
| C06 | M | 45 | Thyroid | Papillary adenocarcinoma | null | T2N1M0 |
| C07 | F | 34 | Thyroid | Papillary adenocarcinoma | null | T2N1M0 |
| C08 | F | 49 | Thyroid | Papillary adenocarcinoma | null | T4N0M0 |
| C09 | M | 22 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| C10 | F | 40 | Thyroid | Papillary adenocarcinoma | null | T1N0M0 |
| C11 | F | 33 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| C12 | M | 42 | Thyroid | Papillary adenocarcinoma | null | T3N0M0 |
| C13 | F | 26 | Thyroid | Papillary adenocarcinoma | null | T3N0M0 |



Advancing Biomedical Science Through Tissue Arrays

| | | | | | | |
|-----|---|----|---------|--------------------------|------|--------|
| D01 | M | 19 | Thyroid | Papillary adenocarcinoma | null | T3N1M0 |
| D02 | M | 19 | Thyroid | Papillary adenocarcinoma | null | T3N0M0 |
| D03 | F | 45 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| D04 | F | 43 | Thyroid | Papillary adenocarcinoma | null | T3N0M0 |
| D05 | F | 33 | Thyroid | Papillary adenocarcinoma | null | T3N0M0 |
| D06 | F | 29 | Thyroid | Papillary adenocarcinoma | null | T1N1M0 |
| D07 | F | 76 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| D08 | F | 47 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| D09 | F | 48 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| D10 | F | 49 | Thyroid | Papillary adenocarcinoma | null | T3N0M0 |
| D11 | F | 59 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| D12 | F | 68 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| D13 | F | 74 | Thyroid | Papillary adenocarcinoma | null | T3N0M0 |
| E01 | F | 48 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| E02 | F | 58 | Thyroid | Papillary adenocarcinoma | null | T3N0M0 |
| E03 | M | 55 | Thyroid | Papillary adenocarcinoma | null | T3N0M0 |
| E04 | F | 31 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| E05 | F | 77 | Thyroid | Papillary adenocarcinoma | null | T1N0M0 |
| E06 | M | 32 | Thyroid | Papillary adenocarcinoma | null | T1N1M0 |
| E07 | F | 59 | Thyroid | Papillary adenocarcinoma | null | T1N0M0 |
| E08 | F | 27 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| E09 | F | 42 | Thyroid | Papillary adenocarcinoma | null | T3N0M0 |
| E10 | F | 59 | Thyroid | Papillary adenocarcinoma | null | T3N0M0 |
| E11 | F | 25 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| E12 | M | 36 | Thyroid | Papillary adenocarcinoma | null | T3N1M0 |
| E13 | F | 80 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| F01 | M | 30 | Thyroid | Papillary adenocarcinoma | null | T3N0M0 |
| F02 | F | 45 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| F03 | M | 60 | Thyroid | Papillary adenocarcinoma | null | T3N0M0 |
| F04 | F | 32 | Thyroid | Papillary adenocarcinoma | null | T2N1M0 |
| F05 | F | 38 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| F06 | F | 24 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| F07 | F | 69 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| F08 | F | 64 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| F09 | F | 37 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| F10 | F | 57 | Thyroid | Papillary adenocarcinoma | null | T3N0M0 |
| F11 | F | 52 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| F12 | F | 32 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| F13 | F | 15 | Thyroid | Papillary adenocarcinoma | null | T3N0M0 |
| G01 | M | 24 | Thyroid | Papillary adenocarcinoma | null | T3N1M0 |
| G02 | M | 53 | Thyroid | Papillary adenocarcinoma | null | T2N1M0 |
| G03 | F | 30 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| G04 | M | 34 | Thyroid | Papillary adenocarcinoma | null | T3N0M0 |
| G05 | M | 21 | Thyroid | Papillary adenocarcinoma | null | T2N1M0 |
| G06 | M | 22 | Thyroid | Papillary adenocarcinoma | null | T2N1M0 |
| G07 | F | 37 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| G08 | M | 47 | Thyroid | Papillary adenocarcinoma | null | T3N0M0 |
| G09 | F | 14 | Thyroid | Papillary adenocarcinoma | null | T2N1M0 |
| G10 | F | 67 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| G11 | M | 43 | Thyroid | Papillary adenocarcinoma | null | T2N1M0 |
| G12 | M | 62 | Thyroid | Papillary adenocarcinoma | null | T3N1M0 |
| H01 | F | 34 | Thyroid | Papillary adenocarcinoma | null | T2N1M0 |
| H02 | F | 25 | Thyroid | Papillary adenocarcinoma | null | T2N0M0 |
| H03 | F | 54 | Thyroid | Medullary carcinoma | null | T2N1M0 |
| H04 | M | 63 | Thyroid | Medullary carcinoma | null | T2N1M0 |
| H05 | M | 66 | Thyroid | Medullary carcinoma | null | T2N1M0 |
| H06 | M | 35 | Thyroid | Medullary carcinoma | null | T3N0M0 |
| H07 | M | 71 | Thyroid | Medullary carcinoma | null | T3N1M1 |
| H08 | M | 51 | Thyroid | Medullary carcinoma | null | T3N1M0 |
| H09 | M | 74 | Thyroid | Medullary carcinoma | null | T2N1M0 |
| H10 | M | 27 | Thyroid | Medullary carcinoma | null | T2N1M0 |



Advancing Biomedical Science Through Tissue Arrays

| | | | | | | |
|-----|---|----|---------|---------------------|------|--------|
| H11 | F | 70 | Thyroid | Medullary carcinoma | null | T1N1M0 |
| H12 | F | 68 | Thyroid | Medullary carcinoma | null | T2N0M0 |

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.

Certified by: Fancai Li, M.D.

TNM Classification: Thyroid carcinoma

T- Primary tumor

TX - Primary tumor cannot be assessed

TO - No evidence of primary tumor

T1 - Tumor 1 cm or less in greatest dimension, limited to the thyroid

T2 - Tumor more than 1 cm but not more than 4 cm in greatest dimension, limited to the thyroid

T3 - Tumor more than 4 cm in greatest dimension, limited to the thyroid

T4 - Tumor of any size extending beyond the thyroid capsule

N - Regional lymph nodes

NX - Regional lymph nodes cannot be assessed

NO - No regional lymph node metastasis

N1 - Regional lymph node metastasis

 N1a - Metastasis in ipsilateral cervical lymph nodes

 N1b - Metastasis in bilateral, midline, or contralateral cervical or mediastinal lymph nodes

M - Distant metastasis

MX - Distant metastasis cannot be assessed

MO - No distant metastasis

M1 - Distant metastasis

Histopathologic Types

- Papillary carcinoma
- Follicular carcinoma
- Medullary carcinoma
- Undifferentiated (anaplastic) carcinoma

TNM classification of malignant tumours, Fifth Edition (1997)