



**Cat No: ESC481 – Esophagus cancer/uninvolved paired tissue array**

Lot#	Cores	Size	Cut	Format	QA/QC	
ESC48101	48	2.0mm	4um	6X8	H&E, IHC anti-Cytokeratin	

**Recommended applications:** For Research use only. Designed for esophagus normal vs cancer RNA or protein tissue profiling using IHC or ISH.

**Description:** Esophagus cancer tissue array, non-overlapping with ESC241, 16 cases of esophageal cancer, each in duplicates, paired with corresponding uninvolved tissues from the same patients.

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	56	Esophagus	Squamous cell carcinoma	I	T2N0M0
A02	M	50	Esophagus	Squamous cell carcinoma	I	T2N0M0
A03	F	52	Esophagus	Squamous cell carcinoma	I~II	T2N0M0
A04	M	61	Esophagus	Squamous cell carcinoma	I~II	T2N0M0
A05	M	62	Esophagus	Squamous cell carcinoma	I~II	T3N1M0
A06	M	62	Esophagus	Squamous cell carcinoma	I~II	T2N0M0
A07	M	55	Esophagus	Squamous cell carcinoma	I~II	T3N0M0
A08	M	60	Esophagus	Squamous cell carcinoma	I~II	T2N0M0
B01	M	56	Esophagus	Squamous cell carcinoma	I	T2N0M0
B02	M	50	Esophagus	Squamous cell carcinoma	I	T2N0M0
B03	F	52	Esophagus	Squamous cell carcinoma	I~II	T2N0M0
B04	M	61	Esophagus	Squamous cell carcinoma	I~II	T2N0M0
B05	M	62	Esophagus	Squamous cell carcinoma	I~II	T3N1M0
B06	M	62	Esophagus	Squamous cell carcinoma	I~II	T2N0M0
B07	M	55	Esophagus	Squamous cell carcinoma	I~II	T3N0M0
B08	M	60	Esophagus	Squamous cell carcinoma	I~II	T2N0M0
C01	M	56	Esophagus	Uninvolved esophagus tissue of A1, B1	null	null
C02	M	50	Esophagus	Uninvolved esophagus tissue of A2, B2	null	null
C03	F	52	Esophagus	Uninvolved esophagus tissue of A3, B3	null	null
C04	M	61	Esophagus	Uninvolved esophagus tissue of A4, B4	null	null
C05	M	62	Esophagus	Uninvolved esophagus tissue of A5, B5	null	null
C06	M	62	Esophagus	Uninvolved esophagus tissue of A6, B6	null	null
C07	M	55	Esophagus	Uninvolved esophagus tissue of A7, B7	null	null
C08	M	60	Esophagus	Uninvolved esophagus tissue of A8, B8	null	null
D01	M	66	Esophagus	Squamous cell carcinoma	I~II	T3N0M0
D02	M	55	Esophagus	Squamous cell carcinoma	I~II	T2N0M0
D03	M	59	Esophagus	Squamous cell carcinoma	II	T3N1M0
D04	M	68	Esophagus	Squamous cell carcinoma	II	T2N0M0
D05	M	53	Esophagus	Squamous cell carcinoma	II	T3N1M0
D06	M	66	Esophagus	Squamous cell carcinoma	II~III	T2N1M0
D07	M	47	Esophagus	Squamous cell carcinoma	II~III	T2N0M0
D08	M	39	Esophagus	Squamous cell carcinoma	III	T3N0M0
E01	M	66	Esophagus	Squamous cell carcinoma	I~II	T3N0M0
E02	M	55	Esophagus	Squamous cell carcinoma	I~II	T2N0M0
E03	M	59	Esophagus	Squamous cell carcinoma	II	T3N1M0
E04	M	68	Esophagus	Squamous cell carcinoma	II	T2N0M0
E05	M	53	Esophagus	Squamous cell carcinoma	II	T3N1M0



## Advancing Biomedical Science Through Tissue Arrays

E06	M	66	Esophagus	Squamous cell carcinoma	II~III	T2N1M0
E07	M	47	Esophagus	Squamous cell carcinoma	II~III	T2N0M0
E08	M	39	Esophagus	Squamous cell carcinoma	III	T3N0M0
F01	M	66	Esophagus	Uninvolved esophagus tissue of D1, E1	null	null
F02	M	55	Esophagus	Uninvolved esophagus tissue of D2, E2	null	null
F03	M	59	Esophagus	Uninvolved esophagus tissue of D3, E3	null	null
F04	M	68	Esophagus	Uninvolved esophagus tissue of D4, E4	null	null
F05	M	53	Esophagus	Uninvolved esophagus tissue of D5, E5	null	null
F06	M	66	Esophagus	Uninvolved esophagus tissue of D6, E6	null	null
F07	M	47	Esophagus	Uninvolved esophagus tissue of D7, E7	null	null
F08	M	39	Esophagus	Uninvolved esophagus tissue of D8, E8	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.

**Certified by:** Langxing Pan, M.D.

## TNM Classification: Esophagus carcinoma

### T- Primary tumor

- TX - Primary tumor cannot be assessed
- TO - No evidence of primary tumor
- Tis - Carcinoma in situ
- T1 - Tumor invades lamina propria or submucosa
- T2 - Tumor invades muscularis propria
- T3 - Tumor invades adventitia
- T4 - Tumor invades adjacent structures

### N - Regional lymph nodes

- NX - Regional lymph nodes cannot be assessed
- NO - No regional lymph node metastasis
- N1 - Regional lymph node metastasis

### M - Distant metastasis

- MX - Distant metastasis cannot be assessed
- MO - No distant metastasis
- M1 - Distant metastasis

TNM classification of malignant tumours, Fifth Edition (1997)