

# Data Sheet

**Product Name:** Liver Tumor Tissue Array - 16 cases of liver cancer, each in duplicates, paired with adjacent normal tissues

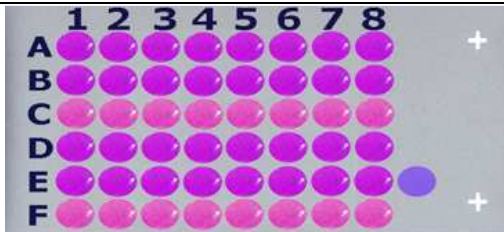
**Catalog No.:** Z7020059

**Lot No.:** B506168

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

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

**Tissue Array Diagram:**

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

**Recommended applications:** For research use only. Designed for liver normal vs cancer RNA or protein tissue profiling using IHC or ISH. Duplicated tumor tissues from each case are arrayed to minimize heterogeneity.

**Description:** 16 cases of liver cancer, each in duplicates, with corresponding uninvolved tissues from the same patients as controls. 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 4°C from the date of shipment. Each slide has >95% tissue core retention.

Position	Sex	Age	Anatomic Site	Pathology	Nature	Grade	Stage (TNM)
A01	M	40	Liver	Hepatocellular carcinoma	Malignant	II	T2N0M0
A02	M	39	Liver	Hepatocellular carcinoma	Malignant	II	T2N0M0
A03	M	33	Liver	Hepatocellular carcinoma	Malignant	III	T2N0M0
A04	M	47	Liver	Hepatocellular carcinoma	Malignant	II	T2N0M0
A05	M	65	Liver	Hepatocellular carcinoma	Malignant	III	T2N0M0
A06	M	68	Liver	Hepatocellular carcinoma	Malignant	III	T2N0M0
A07	M	52	Liver	Hepatocellular carcinoma	Malignant	I~II	T2N0M0
A08	F	46	Liver	Hepatocellular carcinoma	Malignant	II~III	T2N1M0
B01	M	40	Liver	Hepatocellular carcinoma	Malignant	II	T2N0M0
B02	M	39	Liver	Hepatocellular carcinoma	Malignant	II	T2N0M0
B03	M	33	Liver	Hepatocellular carcinoma	Malignant	III	T2N0M0
B04	M	47	Liver	Hepatocellular carcinoma	Malignant	II	T2N0M0
B05	M	65	Liver	Hepatocellular carcinoma	Malignant	III	T2N0M0
B06	M	68	Liver	Hepatocellular carcinoma	Malignant	III	T2N0M0
B07	M	52	Liver	Hepatocellular carcinoma	Malignant	I~II	T2N0M0
B08	F	46	Liver	Hepatocellular carcinoma	Malignant	II~III	T2N1M0
C01	M	40	Liver	Uninvolved liver tissue of A1,B1	Normal		
C02	M	39	Liver	Uninvolved liver tissue of A2,B2	Normal		
C03	M	33	Liver	Uninvolved liver tissue of A3,B3	Normal		

C04	M	47	Liver	Uninvolved liver tissue of A4,B4	Normal		
C05	M	65	Liver	Uninvolved liver tissue of A5,B5	Normal		
C06	M	68	Liver	Uninvolved liver tissue of A6,B6	Normal		
C07	M	52	Liver	Uninvolved liver tissue of A7,B7	Normal		
C08	F	46	Liver	Uninvolved liver tissue of A8,B8	Normal		
D01	F	52	Liver	Hepatocellular carcinoma	Malignant	II	T1N0M0
D02	M	40	Liver	Hepatocellular carcinoma	Malignant	I~II	T2N0M0
D03	M	41	Liver	Hepatocellular carcinoma	Malignant	II	T2N0M0
D04	M	57	Liver	Hepatocellular carcinoma	Malignant	II	T3N1M0
D05	M	41	Liver	Hepatocellular carcinoma	Malignant	II	T3N0M0
D06	M	36	Liver	Hepatocellular carcinoma	Malignant	II~III	T2N0M0
D07	M	61	Liver	Hepatocellular carcinoma	Malignant	I~II	T2N0M0
D08	M	43	Liver	Hepatocellular carcinoma	Malignant	I~II	T3N1M0
E01	F	52	Liver	Hepatocellular carcinoma	Malignant	II	T1N0M0
E02	M	40	Liver	Hepatocellular carcinoma	Malignant	I~II	T2N0M0
E03	M	41	Liver	Hepatocellular carcinoma	Malignant	II	T2N0M0
E04	M	57	Liver	Hepatocellular carcinoma	Malignant	II	T3N1M0
E05	M	41	Liver	Hepatocellular carcinoma	Malignant	II	T3N0M0
E06	M	36	Liver	Hepatocellular carcinoma	Malignant	II~III	T2N0M0
E07	M	61	Liver	Hepatocellular carcinoma	Malignant	I~II	T2N0M0
E08	M	43	Liver	Hepatocellular carcinoma	Malignant	I~II	T3N1M0
F01	F	52	Liver	Uninvolved liver tissue of D1,E1	Normal		
F02	M	40	Liver	Uninvolved liver tissue of D2,E2	Normal		
F03	M	41	Liver	Uninvolved liver tissue of D3,E3	Normal		
F04	M	57	Liver	Uninvolved liver tissue of D4,E4	Normal		
F05	M	41	Liver	Uninvolved liver tissue of D5,E5	Normal		
F06	M	36	Liver	Uninvolved liver tissue of D6,E6	Normal		
F07	M	61	Liver	Uninvolved liver tissue of D7,E7	Normal		
F08	M	43	Liver	Uninvolved liver tissue of D8,E8	Normal		

**Notes:** Bake at 60°C 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: Liver carcinoma

#### T- Primary tumor

- TX - Primary tumor cannot be assessed
- T0 - No evidence of primary tumor
- T1 - Solitary tumor without vascular invasion
- T2 - Solitary tumor with vascular invasion or multiple tumors none larger than 5 cm
- T3 - Multiple tumors more than 5 cm, or tumor involving a major branch of the portal or hepatic vein(s)
- T4 - Tumor(s) with direct invasion of adjacent organs other than the gallbladder or with perforation of visceral peritoneum

#### N - Regional lymph nodes

- NX - Regional lymph nodes cannot be assessed
- N0 - No regional lymph node metastasis
- N1 - Regional lymph node metastasis

#### M - Distant metastasis

- MX - Distant metastasis cannot be assessed
- M0 - No distant metastasis
- M1 - Distant metastasis

**FOR IN VITRO RESEARCH USE ONLY**

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

