



Cat No: **LVC481 - Liver cancer/adjacent paired tissue array**

Lot#	Cores	Size	Cut	Format	QA/QC	Pantomics, Inc.	
LVC48101	48	2mm	4um	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 (purple), with corresponding uninvolved tissues (pink) 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 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	40	Liver	Hepatocellular carcinoma	II	T2N0M0
A02	M	39	Liver	Hepatocellular carcinoma	II	T2N0M0
A03	M	33	Liver	Hepatocellular carcinoma	III	T2N0M0
A04	M	47	Liver	Hepatocellular carcinoma	II	T2N0M0
A05	M	65	Liver	Hepatocellular carcinoma	III	T2N0M0
A06	M	68	Liver	Hepatocellular carcinoma	III	T2N0M0
A07	M	52	Liver	Hepatocellular carcinoma	I~II	T2N0M0
A08	F	46	Liver	Hepatocellular carcinoma	II~III	T2N1M0
B01	M	40	Liver	Hepatocellular carcinoma	II	T2N0M0
B02	M	39	Liver	Hepatocellular carcinoma	II	T2N0M0
B03	M	33	Liver	Hepatocellular carcinoma	III	T2N0M0
B04	M	47	Liver	Hepatocellular carcinoma	II	T2N0M0
B05	M	65	Liver	Hepatocellular carcinoma	III	T2N0M0
B06	M	68	Liver	Hepatocellular carcinoma	III	T2N0M0
B07	M	52	Liver	Hepatocellular carcinoma	I~II	T2N0M0
B08	F	46	Liver	Hepatocellular carcinoma	II~III	T2N1M0
C01	M	40	Liver	Uninvolved liver tissue of A1, B1	null	null
C02	M	39	Liver	Uninvolved liver tissue of A2, B2	null	null
C03	M	33	Liver	Uninvolved liver tissue of A3, B3	null	null
C04	M	47	Liver	Uninvolved liver tissue of A4, B4	null	null
C05	M	65	Liver	Uninvolved liver tissue of A5, B5	null	null
C06	M	68	Liver	Uninvolved liver tissue of A6, B6	null	null
C07	M	52	Liver	Uninvolved liver tissue of A7, B7	null	null
C08	F	46	Liver	Uninvolved liver tissue of A8, B8	null	null
D01	F	52	Liver	Hepatocellular carcinoma	II	T1N0M0
D02	M	40	Liver	Hepatocellular carcinoma	I~II	T2N0M0
D03	M	41	Liver	Hepatocellular carcinoma	II	T2N0M0
D04	M	57	Liver	Hepatocellular carcinoma	II	T3N1M0
D05	M	41	Liver	Hepatocellular carcinoma	II	T3N0M0
D06	M	36	Liver	Hepatocellular carcinoma	II~III	T2N0M0
D07	M	61	Liver	Hepatocellular carcinoma	I~II	T2N0M0
D08	M	43	Liver	Hepatocellular carcinoma	I~II	T3N1M0
E01	F	52	Liver	Hepatocellular carcinoma	II	T1N0M0
E02	M	40	Liver	Hepatocellular carcinoma	I~II	T2N0M0
E03	M	41	Liver	Hepatocellular carcinoma	II	T2N0M0
E04	M	57	Liver	Hepatocellular carcinoma	II	T3N1M0
E05	M	41	Liver	Hepatocellular carcinoma	II	T3N0M0

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E06	M	36	Liver	Hepatocellular carcinoma	II~III	T2N0M0
E07	M	61	Liver	Hepatocellular carcinoma	I~II	T2N0M0
E08	M	43	Liver	Hepatocellular carcinoma	I~II	T3N1M0
F01	F	52	Liver	Uninvolved liver tissue of D1, E1	null	null
F02	M	40	Liver	Uninvolved liver tissue of D2, E2	null	null
F03	M	41	Liver	Uninvolved liver tissue of D3, E3	null	null
F04	M	57	Liver	Uninvolved liver tissue of D4, E4	null	null
F05	M	41	Liver	Uninvolved liver tissue of D5, E5	null	null
F06	M	36	Liver	Uninvolved liver tissue of D6, E6	null	null
F07	M	61	Liver	Uninvolved liver tissue of D7, E7	null	null
F08	M	43	Liver	Uninvolved liver 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. For availability of complimentary IHC data, please contact us at [info@pantomics.com](mailto:info@pantomics.com).

**Certified by:** Fancai Li, M.D.

## TNM Classification: Liver carcinoma

### T- Primary tumor

- TX - Primary tumor cannot be assessed
- TO - No evidence of primary tumor
- T1 - Solitary tumor without vascular invasion
- T2 - Solitary tumor with vascular invasion or multiple tumors none larger than 5cm
- 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
- 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